

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, \=possible nucleotide insertion)
7689	38057	A	7743	18	1108	CSGIPRFRDSQSTRAACFFPAWT RMRAPSMDDRAAVARVGAVAS ASVCALVAGVVLAQYIFTLKR KTGRKTKIIEMMPEFQKSSVRIK NPTRVEEHCGLIKGGAALKQIIT DFDMTLSRFSYKGRCPCTCHNI IDNCKRLQMNVEKSYCQLKEK YYAIEVDPVLTVEEKYPYPMVE WYTKSHGLLVQALPKAKLKE IVAESDVMLKEGYENFFDKLQ QHSIPVFIFSAGIGDVL EEVIRQA GVYHPNVKVVSNFMDDETGV LKGFKGELIHVFNKHGALRN TEYFQSN*KTNSNIILLGDSQG DLRMADGVANVEHILKIGYLN DRSGMSF*EKYMDSYDIVLVQ DESLEVANSILQKIL
7690	38058	A	7744	105	548	PQTPRLKQSYHVSLPSSWWHDHP VAGKRA*HAH*FYIMAQLFLPA ASPGPTPASQQLVWTQCLPISW RPWSAHSFLKSSSPGPGPTPASQ QGLWTQLPRSFQRPWPKSSSSR PGNGPGRAASRPRAQLRLPGG LSRFNDGHGNFLAQ
7691	38059	A	7745	186	650	RCPGCPTTASARESREAESRGR GSSGASWGAVQWEEPPQRLL RGTDDCMIFWAPHGSSTWRRR CVHSRSTAADPVLTPSPA/STPS SNCSGSGTSLAALPLPLPQTLGP *QPGWKGTPOCLNTWGVSITS TGRWATPKIPGLTVPPENMDS MWG
7692	38060	C	7746	212	556	
7693	38061	A	7747	2	312	PDLK*STCLGLPKCDYRW/RA TMPGWENIFSSMNHITLNLGT AVTSTRDNS*LHRVSCISSPWCC CLSPCPCRVSA GTGRVPSC LCH SGAWNRLDQDINRNSC
7694	38062	A	7748	2	366	FLHTKYLFCGKIA PKHYFIRSH FFFLLRQS/LYSIAQGGVQWGN LGSLQPPSPGFKQLSCLSLPSSW NYRCAPP CPANFVFLVEMGFH WIKPG*SRN*PRDPPASASQAG ITGVSHHAQP
7695	38063	A	7749	1	446	MPILFTTVSSALSGA QHIADAQ CDRKGHRTTIQGSRVNLVQPSV GPKVEETQCWGPGRGMGPAE APRERRVRSGRS GDPGVA/PR AASGVGGRYAITRGRASAAVP CRSGGARRGGAGQAADCGPG H*KESESRGPEGPAEGSQPL

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7696	38064	A	7750	1	744	GGLIPRAQRESKRRSRGRARAA SGV/VWALCYHPRQSECCGTL* KWRSSPRRCWRTSGDCGPGH* KESESRGPEGPAEGISASLKM* WFASGTCLSRCLTLRQRK*LKK IKIWIWK/SEK/PAEAT*SEGQPP F*GPRQTGAEGF*LEPPQPGMSL KLFKVILKG*DSRTKMGDQQPP RVHGRTHGPLQLTPVKQGQS CPVKGPSPSGIWP*KPLL*CLAT L*WQEGTFLSGLLGPPTPGAS VGHKIY
7697	38065	A	7751	316	650	SYNTHGITHFVPTANVLVVDL MCHLEKLAKYDDIKKMKVQKA LEGPL/KGILDYTEQQVSSNFT SDTHSFTFDAGAGTAFNNHFFK LIF*YDNEFGYSNRVVELMFHP ASKG
7698	38066	A	7752	2	775	QARRARSRNSRGLSQSAAARPLA AKTAWRTVAPQPWAAAPR*R SSCPHSSCSATSPGARACQSSA HSPSPRLQAPPPPTSSSGSVPE AATAPLAASARRGTPRPTGRP SWAGTRQGSWAGTORPWVWA PAPAGPPRAAAAAAR*GRDKS QLTCPPRHSTPPGSAAGASRHR RRGLAGPAPSPGCRAARPPWP SAAAAALGLGGRGPDVLVHCEI HWPLEFQSLCCCLLTSRGGEAS CHPEFHLFMHDFLPGSF
7699	38067	A	7753	1	552	MQTLFTLLQPSSQTGPPIQPIVC CVYAESGARDSGQP/PSKVPVPS FCTPAATQRG*REPGCSHPAGD CSAPQQCS*PGQ/RIS/RGDKVL ASNTYLPGPGLPGGQGPPTW MKVETITQ/TNTGTENRVFSL LYMTISKQYLSEEGSHWLSCL INALQAFFSNAAIWLVTWFELS RVLGGAEND
7700	38068	A	7754	2	538	LGKYYITGDKVLASNTYLPGP LPGGQGPSPGPKGSPGFPRY A/GLLGQPGSRGSGTHGTIS*/ G/LPTKQGRRGVPGPPGPPERD GSKGERGAPGRGSPGPPGSD FLLMLADIRNDITELQEKVFG HRTHSSAEFPLPQEFPSYPETM DLGSGDDHPRRTETRDLRAPRD
7701	38069	A	7755	146	373	

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7702	38070	A	7756	678	1582	CQGNLSLGSVWPSGDWEDKHS Q*CPVVCSPQNLSQTSRHINDR DYRLPRAETHSSSYAQYSTPSN LVVHPTATPSTVPSSPFTLQSDA YQPKKSFDDANGASTLSKLPPT SSVPAQKTERKESTSGDKPVSH SCTTPSTSSASATE/S/TTSAPPTS ASAGPCFSCSTARQYLPYFRDP NLLRTIAVLLKATVAALINS*C GTYLKIK*SSYSSCDTSLTAVYN S*VSYCWITCFQHNVSDFFSSCSA VPTQAQPSNQSPMSLTSDASSPR IICFSKE*GTPQTNTVPIQTFGFS TPPVSSQAKG
7703	38071	A	7757	1	1365	MHLIPATNCDTLVECLPGKL TRDLVCTAFTFGTSSYPQENS HNHSAHSSNSHSSNPSNNPSK TSDANILSQTSRHNDRDYRLPR AETHSSSTPVQHPPIKPVVHPTAT PSTVPSSPFTLQSDHQPCKSFDA NGASTLSKLPPTTSSVPAQKTE RKVLQQLSKHNKVMIRALIT SHLDLLYIEKDLRYQKNIESTSG DKPVSHSCTTPSTSSASGLNPTS APPTSASAVPVSPVPSPI/PSLT SGPKSS*TIA/PALQATLQLNNS NVDISKINEAQPSNQSPMSLTSD ASSPRSYYVSPRJSTPQNTVPIKP LISTPPCFITAKG*LLQ*LSQGTS VHSQPHTAACNC*/PSSK/SHEP VSPRSLQRSSQSPSPGSGFILL NSSNGIQMATVVPQEFFLARFH VFHLTPGTRRPPQWKISLKHV SRDGPADSWQEGRASRFTAE GRRH

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7704	38072	A	7758	2	1256	CHCGPPV/KVEAYGSQVLKGVL AQVQLTVGVPVGPRTHPVVIFPV PECIIGIDMLSSRQNPHTGSLTG RVWTIMVRKAKWKPLELPLPR KIVNQKQYHIPEGIVEISATIKD LKDAGVVIPTTSPFNSPiWVPVQK TDGSRWMTVGVCYCKLNQVVTPi AAAVPDVVSLLQEQINTPPGTWY AAIDLANDFFPiPVHKAHQKQF AFRWQGRQYTFITVLPOGRWEI NMTKIQGPSTSVKFLGVQWCG ACQDIPSKVKDKLLHLVPPTTK K/EAQCLSGFRREHIPHLiPIYRV SRKAAANFEWSPEQEKALQVQV AAVQAAWPLGPyDPADPMVLE VSVADRDADWSCWQASi/GHK VGHAQQHSIIKWYIRDWAR ADPEGTTKGQQRWWQLAE RQDSRDREAiIGERQETA VGKT ARDGEAVCD
7705	38073	B	7759	56	3476	
7706	38074	A	7760	3	591	DPADPMVLEVSEADRDVPI ESQQRPLGFWSKALPSSANNYS FFKRQLLACYWVVLVEIEHlTM GHQVTMRPELPIINCVLSDPCSH KVGHAQQHSIIKWYIHDWA EGTSKLHEEVAQIPMVSTPSLP QPAPMASWEVPYDQLTEEEKT RAWFTDGSARHAGATQKWTA VALQPLSGTSLQDSSEKSSQW
7707	38075	A	7761	1	558	
7708	38076	B	7762	1	1189	
7709	38077	A	7763	604	1760	NSWCRWFNFRY*YPTFYWES* NT*IPLEWFG*NHDASCP*TLD SKSFSFETRTGSPCSSLQTAYC GTLWIVQGV
7710	38078	B	7764	1	474	
7711	38079	C	7765	1	3384	
7712	38080	C	7766	1	333	
7713	38081	A	7767	1	390	
7714	38082	A	7768	3	728	
7715	38083	C	7769	184	529	

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7716	38084	A	7770	2	837	CHCGPP/VKVEAYGSQVILKGVL AQVQLTVGVPVGRTHPVVIFPV PECIHGIDMLSSRQNPHTGSLTG RVWITMVVRKAKWKPLELPLPR KIVNQKQYHIPEGIVEISATIKD LKDAGVVIPTTSPFNSPIWPVQK TDGSRWMTVGVCCKLNQVVTPI AAAVPDVVSLLGEINTPPGTWY AAIDLANDFFPIPVHKAHQKQF AFRWQGRQYTFVLPQGRWEI NMTKIQGPSTSVKFLGVQWCG ACQDIPSKVKDKLLHLVPPTTK K/EAQCLSGFRREHIPHL
7717	38085	A	7771	2	469	
7718	38086	A	7772	3	587	YPASAGLMLQNFVGVLGRYHF AIHSPAAGGLDGLHAVAAIQG ITKIETTPNHQRAPAHWLLTQ QAHLPSPHLFNLPLTCLMHC PTAIPHCFADARTVWNLPTSSLI GHKKENLKEFISGLIVHEILEE VLQAEQDFQPFTRVTVHWGKG NDQTFRGLLDTGSELTLIPGDP KHHYGPPVKVGYAGQALL
7719	38087	A	7773	1	633	MTVDYRKFNQVVTPTMAA/AVP DAVSLLGEINTFPGTWYAAIDL ANAFPSIPVHEAHQKQFALPQ GYINFALCHNLIRRELDFLLLL QDITLVHYIDDILLGSSEQEVV NTLDLLIHKRSKEAEHTAASRIR VSCLPEQKSHEQTLPWEQVPSS GDIKEYFPNAFVLLTTASLQGG DNTSQLQLTWKAPEDIKMSKT DADADEIEIALRG
7720	38088	B	7774	1	1431	
7721	38089	B	7775	75	947	
7722	38090	A	7776	6107	6706	MVVVFLHKCLHYFHSTQLVISR YNSPTSEYFQALDLTWALGT VGSAPPILPDLGGTNRQPFPIL SHSGLHRNVLPETDSQSEDRL PVTWLAVSACCCQQMVGGNP TRSKL*RTGSHYHLPG/WE*RP HFPHAGSLAQWLLCSSLEHSF GA*ELPCNPCKGWCLCPCHFI YIFFNSFLSNCPQLCNSHSSYFI

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7723	38091	A	7777	1	3179	MAEGKEEQVLSYTDGSRQREN EEDAKAETPDKTIRSHETYS.LPR EWYEGNRPHDSITTSQWVPPTTR GNYGSTIQDEIWVGDSGYVVRP VPVPRSLNSDISYFGVGGKQAV FFVQGSARMISKPADSQDVHEL VLSKEDFEKKEKNKEAIYSGYI RNRKDDYDNHTGIDLVTGIIATII KGSNEEDTDPLFIGKVRTLEFP FVNGSAEIMLMPSNQQHKTDE KGRANLGVFSVFAPRGEHTLQ VKAIYNKSIIEGP
7724	38092	A	7778	281	1531	VRVLSPEVKELKLWKNTHKLL SYPTVGAAVTLQNLMTAGVI GSHGARQQVVALNRQRQGD LPFTRVTVHWGKG/NMQIFGGL LDTGSELTLIPGDPKHHCAPPV KVGAYGGQVINGVLAQVQITV GPQTHPVVISPVPECIIGIDILSS WQNPHIGSLTGRVRAIMVGKA KWKPLELPLPRKIVNQKYCIP GGTEEISATIKELKDAGEVPIPT TFPLNSPIWPVRKTDGCWRMT VDYCELNQVVTPTAATVPD VSLLEQINTSPGTWYADIDLANA VFSIPVHKAHQKQFAFSWQGG QYTFVTLPQEYINSLGLCHNLI WRDLDGFLLLQNITLLVHYVD DIMLIGSSEQEVANALDLLVSM ASSRVPYDQLTEEEKARFTDGS ARYAGTTRKWTAAALQPLSRIS

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7725	38093	A	7779	332	2159	RGYVFCSWKKTGDS/WRMTVD YCKLNQVVIPIAAAVSDVVSLL EQINTSPGTWYAAIDLNAFFSI PVHKAQKKQAFSWQGGQYTF TVLPQWYINSPALCHNLIRRD DCFSLPLDITLVHYIDIMLIGP RQLLACYWALVETECLTLGHQ VTI*PELPIMNWVLSDPSSHKVG HEQQHSIIKWKWYVHDWARA GPEGTTTTVISQWPHEQCCHGG RDGGYAWAQCCRLPLTKADL NTATAKRPIQQQRPTLSPOYG TIPQGDQPATWWVVDYMGSL PSWKGQRFVLTGIDTYSYGFGA YPACNASAKTAICGLTECLIHH HDIPHISASDQGTHTMAKEVVRQ WAHDHGIHWSYHSHHPEAA GLIEWWNGLLKSQLCQCLGDN TWQGWGKVLQKVYVYALNQIIP IYGTVSPIAKIHRSRNQGLEVAP LTITPRDPLAKFLPPFATLQSA GLEVLVPEEGLPPGDTMIPLN WKLRLPPRHFGLLPLNQAK KGVTVLAGVTDLDYKDEITLLL HNGGKEEYAWNTGDPLGLLLI LPCPMIKVNGKLQQLKPEALVP KGVVFPFGDTMLSLSWKRLP SGHVGLLMPLSQQVQKGVTVL
7726	38094	A	7780	84	202	
7727	38095	A	7781	1	551	RWGSHTVAQAGVQCDHGSL QPRSPGVK*SSHLSLLGSWNHR HATITPG*FCFFSRIRSHCAQA GL*LLTSHNPPALASQT.VGITG VSHWTWPNTGFSVLATNKNL KFFHYAISKCLVRKLSRLKI EERNKALSAPVVSIFDRVLR LLGYSASDWQPEFVETAVSNFV IYGFIRGQ
7728	38096	A	7782	1	678	MPACRLGLLATALIISLLFGFTI VSGTGAETGVCPELQADQNC TQECVSDSECADNLKCCSAGC ATFCSLPNGQLAE*FESEESSL DTVSPFVVFSISSTLRIE*ARA GDSSQDKEGSCPPGVTI*LPFSS GLCRDQVPGGTAQCPGQIMK CCRINGCGKVSCVTAQFLSSSH HQAQVRRDSFLPGPASGFQAIH LPSPFFGTLYSLFGLTTSFSLSQP

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7729	38097	A	7783	1	1972	MAVNGCLEGPSSNFLSCLFIVA LVGSESTHPLCLEQPATQETRY QLQLRPAQASRWIGYAIAYHL LEDYEMAAKILEEFRTQQTSP DKVDYEYSELLYQNOVLREA GLYREALEHLCTYEKQICDKLA VEETKGELLQLCLREDAADV YRGLQERNPENWAYYKGLEKA LKPANMLERLKIYEEAWTKYP RGLVPRRLPLNFLSGEKFKACL DKFLRMNFSKGCPPVNTLRSL YQDKEKCAIIEKL VVGYESLTK SCRLFNPNDGKEEPPPTLLWV QYYLAQHYDKIGQPSIALEYIN TAIESTPTLIELFLVKAIYKHA GNIKEAARWMDEAQAALDTAD RFINSQCAKYMMLKANLIKEAD MSSKFTRGGTSAVENLNEIQCM WFHTECAQAYKAMNKFGEAL QKCHEIERHFIEITDDQDFHTY CMRKITLRSYVDLLKLEDVLRQ HPFYFK/EQARIAIEIYLKAS*QP PYR*GIGKTRRLDTAKLSDEL KKLRNKORRAQKKAQIEEEK NAEKEKQQRNQKKKDDDDDE EIGGPKEELIPEKLAKVETPLEE AIKFLTPLKNLVKNIETHLFAF EIYFRKAAMVYYLDPSSQKR AIELATTLDESLTNRNLQTCME VLEALYDGLDCKEAAEIYRA
7730	38098	A	7784	264	429	HRAAPATSDTQE*HRSNAFGEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEETLFSN
7731	38099	A	7785	1	681	
7732	38100	A	7786	415	692	
7733	38101	B	7787	1	2204	
7734	38102	A	7788	1	615	MPVDHPPIKAFSEKRTSQSVNM LAKTHPYNPLWAQLEWFKLEI SPKSPINTDKFLLKRLSVPGSDS CRVRMENVLASQVLHPGQLM M*EGSGWAEART/V/CS*AANP *KWHPASLPLPW*CRVRMENV LASQVLHPGHADVDVGGKWLG RSKDHRAPEQQTRESGIRLPSLF PGSAEQPWRGNAQWHLWSKA LRGVFGMIPDSLLYEFHQSAKK SSHFKPPQPLLYWTLVNFLLPFS LHSSWFMWSSNQGMCKEEV

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7735	38103	A	7789	3129	3197	TQNRACSPDTEQLARQSGTYP VSLGQATVLEDSKAALPGLGPT LMAVTVVTTEAAVAIGCEAAH SSREDFTNHQLWRRITVEGKKG EGKNKFMGGVNTTVPLLKTS RKGSPPSPHLREKPSLEKVTFOI GSFASPESEFESRMKKMEERVK ACGPSLEASEAADVAQDPQVS RSPFKPGFQENVCCPQNRLSEG DEGESDKGFAEDRGSRNDDMAA DIAGQLSHAADLTGASHDDVT YAIKPTCWPGLDIIPSL
7736	38104	A	7790	1	1069	MAEKEAGMSYMAEVLGFVA VIIIEAELKRIFENFTVAEERS TDETFSLAETCSSNPAMVRRK KIAISIIIFSLCEKEEAQRNFQDF FSHFPLFESHMNRKSAIEKAMI SCRKIAESSLRVQFYVSRLEMA LGEFRGTIWNLYSVPRIAEPVW LTMMSGTLEKNQLCQRFLKEF TLLIEQINKNQFAALLTAVLTY HLAWVPTVMVDPHPIKAFSEK RTSQSVNMLAKTHPYNPLWAQ LGDLYGAIGSPVRLTRTVVVGK QKDLVQRILYVLTIFYLRCELQ E/IPADLEWQSW*R*PAMVRRK KIAISIIIFSLCEKEEAQRNFQDF FSHFPLFESHMNRKSAIEKAMI SCRKIAESSLRVQFYVSRLEMA LGEFRGTIWNLYSVPRIAEPVW LTMMSGTLEKNQLCQRFLKEF TLLIEQINKNQFAALLTAVLTY HLAWVPTVMVDPHPIKAFSEK RTSQSVNMLAKTHPYNPLWAQ LGDLYGAIGSPVRLTRTVVVGK QKDLVQRILYVLTIFYLRCELQ ENQLTWSGNHGEQDQVLNGSK IITALEKGEVESEYVITVRNE PALVPPHPTTNSRETQPLADR
7737	38105	A	7791	118	273	FSLSNLVQFFRVCDNHLTKLH FCFLQAEVKASNFCYDSLGH LGSHTTVECIATDEHTLHLTSP MG*SQGQFLHLRFSWACPGIP PHS

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7738	38106	A	7792	1	551	MQPELPIMNWVLSEPPSHKVG HGQQHSIIKWRWYICDWAVVG RESTTNGLAIGWSIGTWKKHD WKJNDNEIWGKISMWIDLSEW SKTVKIFVSHESAHHIT*KSSAE EDFNNQWDGMCSDVTTHPLS LTTSVIAKWAHEQSDHGGRYG GYAGAQQHGLPLTKADLAMTT AECPICQQRPPLSP
7739	38107	A	7793	1	782	MTKIQEPSTSVKFLGVQWSGA YQDIPSKVKDKLLHLAPPTTTK EAYLGL/FGFWRQHPIH/LGTEQ EKTQHVVQAAVQVAFLEPYD PADPMVLEVSVAADRDAIWSLW QAPISESQWRPQGFWSKALPSS AANYSPFERQLLAYWALVET EHLTMGHQVTKQPELPIMNWV LSDPSSHKVGCAQQHSIIKWKW YICDRARAGPEGTTTPVITQWA HEQSGHGGRDGGYTWAQQQG LPLTKADLATATAECPICQQQR PTLSP
7740	38108	A	7794	65	230	
7741	38109	B	7795	1	2115	
7742	38110	A	7796	1	246	
7743	38111	A	7797	1	1293	MAAAACLDASGEARPLRPPW SQQGRKQAGALPPTKLAGLLA QLQPAEAPDLGIPVLSATREDPL SPQARKCLLPLPGLSPCSQHLL WCRASCGRWGWPSRPSRVCTG LDTAVTPAPCRLSPLWTSADK RGREASRGEGSSKWACRHPSA QTAWAVEGDRHFLSRKQGIT GKTPPSSQGQPEAWGLSCSPH TLHTSFFLDTGPLNGGTEKAVT QTGPKHAPCSPGCQGGGKGC GPSGTPDLGALRARAVTVGLCS SWHLQASGHHCIPQYLQKLL VVHLVQPQCTKPPVVPSPRLQ MTIENMNHKLFIPHKDYTNRL VSGLLQLPSNTSLVIDETLLEQ GQLDTPGVHNVATLSNLITWQ KVDYDFSYHQMEFFCNKVFIT SEGRSLLPADVPDSLTA PANST KHGGST*TAFSQRCLLPC

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7744	38112	A	7798	1	2555	MPShLNQHqIHtKEkSYKCEE CGKsFRKSSNCTTHKRIHTGEK PYRCEEgKAfRWpSNLTrHK RIHTGEKPYtCEEgQAfRRSS TLtNHKRIHTGERPYKCEEgCK AFsVSSTLNDHKRIHTGEKPYt CEEgGfAFNCSSTLKtHKRIHT GEKPYKCEECDKAfKRHSSLA KHKIHTGEKPYKtGS/CILLQR YCWSTT*TIHFkK*S*EN/PGSC DLNtLRLKKDYQRvGNCKGQK SSyNGIHQCLSAtrSKtCQYNK CGKAfGLCSIFtEHKKfSREKc YKCEEgCKDCRLSDFTIQKRIH TADRSYKCEEgCKACKKfSNL TEHNRVHTGKKPYKCEEgCKT FTCSSALtKHkRNHTGDRPYKc EECHKAfRWCSDLtKHkRIHT GEKPYKCKECHKAfRCCSDLT KHKRIHTGEKPYKcNEgKAF MWISALSQHNRHTGEKPYICE ECGKAFTYSSTLtSHKRIHMeLR PYKCEEgCKTFKwFSDLTnHK RIHTGEKPYKCEEgKSfTCSs NLIKHkRIHMeVRPYKCEEgCK TFKwFPDLtNHKRIHTGEKPYK CEEgCKTfTCSsSLIKHKRSHTG DR/PYKCKEEgKAfRWfSALL NISKHKRIHTGEKPYICEEGKA FIRSSTLTSHKRIHMeERPYPKCE ECGKtCIHIGEKPYKcNEgCK GfMWISALRKHkRIHTGETPYI
7745	38113	A	7799	212	461	TEeHLYSPHWKGCGRKvKRLf QVRGRGwIQTRQPGSMVKEP PLSEAGAEshVSC/RQGDcSRPP SFPLSPERVTPWLpDSItW

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7746	38114	A	7800	1	1398	AAAERELELLRASLEHQGVSE LLRGRLRELEEAREAAEEAAAG ARAQLREVAITQTPWSCAEKAA QTESPAE/GPP*LRARPDWTE TRAVAPAGILKSIMKKRDGTP GAQPSSGPKSLQFVGVNLGEYE SSSSEDTNDSGDSENGGAEP GSSSGSGDDSGGGSDSGTPGPP SGGDIRDPEPEAEAEQQAQ RCELSPLREACVALQRQLSRP RGVADGGAVRLVAQEWFRVS SQRRSQAEFVARMLEGVRLG PELLAHVVNLADGNGNTALHY SVSHGNLAIALSLLDTGACEVN RQNRAGYSALMLAALTSVRQE EEDMAVVQRLFCMGDVNAKA SQTGQTALMLAISHGRQDMVA TLLACGADVNAQDADGATAL MCASEYGRLDTVRLLLTQPG/C DPSILDNEGTSALVALE/AETG MKVAALLHAHLSSGHPDTQSG VTPLAPQTANTW
7747	38115	A	7801	3	408	
7748	38116	C	7802	141	251	
7749	38117	A	7803	1	1173	
7750	38118	A	7804	451	853	LQMHRLCGHSLSGCGWHTAR GQELVGCFL*GGGQLLGLOH PL/AENPTFQEYSLITSEAGLLEG RKKKNKTSRGPSPATCPLGLP RTSPGATRPGPVS/HAALIASQRD SSRTRFSSSLDAIARPYTTPSA
7751	38119	A	7805	1	2950	MAASRLELNLVRLLSRCEAMA AEKRDPEWRLEKVGTVYSVA SGRVLFQDFTEQFQVLLPKDAQ PCREVISTLLEKMKIDKRNQIG KTKVEPGV/EAWPLRRVRRQPD QRQGLGAHRAGEAPGTRGDAR PVHRGPLQVGCQPHSGAPAG AADRPSSQAGELPHPRHHRGA EAVAAGAAARAPHDLRTVRRLP PSRRAAGEAGAAGCH/RMPSW STFQKPTTTTPWRDSSSTLSSNHP LTASGCAGWPCSRMST
7752	38120	C	7806	398	415	
7753	38121	C	7807	13	81	
7754	38122	B	7808	1	972	
7755	38123	B	7809	1	1803	

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7756	38124	A	7810	1	929	IAAAPELLERSGSPGGGGGAEE EAGGGPGGSPDGDARPGPSREL AVVARPRAAPTGPSSAAAMAR PLVPSSHKALLLEKGLQEPPV EGFRVTLVDEGDLYNWEVAIF GPPNTYYEGGYFKARLKFPIDY PYSPPAFRFLATKMWHPNIYETG YVCISILHPPV/DTDPQSGELPSE RWNPVTQNVDRHSS*V*SSLLE RRPNTFLRPANVGRLPWMLQG SWEREQGGRIRELHRTSFRKQV LGTKVDAERDGVKVPITTLPEY CVKDQGRAPDEGSDLFYDDY YEADARVEEADSCFGDEDDDS
7757	38125	A	7811	2	296	LSLSFFFVKAHFVVKSMHSHKD ASGISGMDFFVQV*FSWQTAY AGEVGRWLSPALTERGSGQTL* TWCWRVFCVCLIGHMWVTEA YVTVKH*NYSKVK
7758	38126	A	7812	397	410	SPGEI*G*VPPLLG*GVLLYQPP LFKIWEAPLLPDLLQQ*KLYSL WLNKALGK
7759	38127	A	7813	2	739	ELCALVFGVNTFFATIVKTIITFI VSDVRGLGLPVRKQDSVVVFL DCPSIW*LRVIDLLILRVHLQIH LWGLRGRRAEFKHI/RSAAEKK LTRIPSVNGE*TGKSPAPANS/PP RGARDMWRTGRAPAPRPLVGG PSPSDRGPASTTSPELAVGAVN GGPSSANISRFGWQQSFHGNMC WFAECPGVAGVPFTANIAGTPE GGLGQGRQCSLATQCHKPELK LQAKPAFFSFLSLFFFLKHIL

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7760	38128	A	7814	594	2868	CWTSRNRRIPIGSGCHPMELPRPF RGKAKVQNHQLVHVNKALIN RGSLSFWLDDGAIAQAWHCPVK TYYQYTPVSSKAMY/DAFWNG/ KFRDC/AFHSWLNEDPFVCEYQ GQSSDLQPVPVNAAGGSGGGS GGGSEGGGSEGGGSEGGGSE GGSEGGGSGGSGSGDFDYEK MANANKGAMTENADENALQS DAKGKLDVSATDYGAIDGFIG DVSGLANGNGATGDFAGSNSQ MAQVGDGDNPLMNNFRQYLP SLPQSVCECRPYVLSAGSEIGAA CASRSGYDNKGVRDIGYTDC RSEDLDPLRHQILGGKKA/QFTL QGFPTLPEGAPAGNSGSLAVHK TAQSSYRHHALLITPMSGTRF PPIPGPVVNIIRVFPAPSECRIC YSWSWVPGSPVHCQSDGVSPI SYAPLASQYSSSLFRRNRQPYA PYDLSVMTSPRTLREQIRIRYA PSAPRLPPPEVYCSNSTITVYVRN NPSGPTPGFAGGTLLEGRSGGP FRFYAKRAKGDVLPFSLNLPL QTLIRFMVDIACGMEYLSRNFI HRDLAARKCMYEFWRTRGWE TAAAYYGGGTTFFRKESQKLQ QSAKKRDAELANGALGIIELNN DYTLKKVMKPLITSNTVTDEIE RANVFKMNGKWYLFDTDSRGSK MTIDGINSNDIYMLGYVNSLT GPYKPLNKTLGLVLQMGDPND
7761	38129	A	7815	2	474	RRFVSADNCRSLRWKSLYTPLD ADASVLSTGIDATQTNHGRQH LDETQVRVFGQHLMQGSYTTQ DGRSDVAISCCKLEMCAQQSY DQLLAASTENWRQWWQKRRIT VNGG/GSSPASDADQTPAPGFR RDVGDRDWFAWRQCLLKALT RRRPVAYIVISSAMSGLPKQS D
7762	38130	A	7816	302	409	
7763	38131	A	7817	199	359	ARRQQVSVKSYRWEEDQHCG ELQGSSE*VSDGLFKPP*S*HGW VEEEROKEQN
7764	38132	A	7818	1853	2032	VKQSTALLPHAVAC*PKVISSG ARGLSILVLIRIVMMVMMLP QLALSGWGRFRVLPG

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7765	38133	A	7819	118	445	AAGGEPGDAPWVPGVWEPPE VCRGPPPSSTFHPVLSTFGASG PENSRDCSWLSPQH*AA*VASG NNGPQAAQGSLSGIPDAA TLSG I*RASILHVSVVETIISSPGFR
7766	38134	A	7820	1	770	MRVLGIETSCDETGAIVDDEK GLLANQLYSQVKLHADYGGVV PELASRDHVRKTVPLIQAALKE SGLTAKDIDAVAYTAGPGLVG ALLVGATVGRSLAFALGRFGDP CTPYWRASVSARCKIPAPNFR CALLGSAA YAVNHGTGLSKKP TTLGSDHSKTPAQLAKRAGEA RRNGWQGFPPWESARSGE TP/VICRH*HSHRAAKSGLGA GGTSSGGRYRLGGYSILADHGG *KFHCA*RHGATSGDGKVL
7767	38135	A	7821	3	834	VGRVEIADQYQDLAILWNCLG SDHASSRQRRPFRGKAKVQNH QLVHLQSSHQPWLPHPFLAG* WGDSGLGGGSIEGGSEGGGSE GGGSEGGSGGGSGSGDFDYE KMANANKGAMTENADENALQ SDAKGKLDVATDYGAAIDGFI GDVSGLANGATGDFAGSNS QMAQVGDGDN SPLMNNFRQY LPSPQSVVECRPYVFGAVRHDV RRIRVTGVTRVTPPEEVDTSVH SRGAHRIRSGFAPKRSVRVTTD TCIKRNSTCGVKSLSLWDGGGF
7768	38136	A	7822	1	1044	

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7769	38137	A	7823	3	1472	GVVGERAGMARPGRPREGGGS G/GYSRPVPPAGGPGP*RGRTRI/ SGLANGAGPVVFQFLTELTRLF QKCRITSGSVYITLKKCKQREGS RAMLPGFPPYTPVSSKAMYDAY WNGKFRDCAFHSGFNEDPFVC EYQGQSSDLPQPPVNAAGGSGS GGSGGGSEGGGSEGGGSEGGG SEGDGSEGGGSGGGSGSGDFD YEKMANANKGAMTENADENA LQSDAKGKGLDSVATDYGAID GFIGDVSGLANGGATGDFAG SNSQMAQVGDGDNPLMNNFR QYLPSPQSVCECRPYVFGAGKP YEFSDCDKIKILRGVFAFLLYV ATFMLPVIANIAPQKRPFMQQT RCEVQCREDEIVQKLKSYDKLL ASINKKPGVNGWQKRRTVNA GEAHDQQALDYALYHLRIMTP AHDERSIAAKGLTGEGYKGH VFWDETVFLFPFLHSDPTVAR SLRLRYRWHNLPGRARRKRKRDGN GWAGGAPISVGKARAAAKK
7770	38138	A	7824	601	853	
7771	38139	A	7825	2	644	MAQQQ/RKFAHKPAKSKTAA/ A/ASEKNRGP RKGGRVIA PKKA RVVQQQKLKKVSLCCSGWS*T PGLKASSRLCLPKCWDYRRDTL WLFSLATFICRWNLKRSSEGGK IEHDVVMKA/SSSLPRLKALLK APSPRRNGAAAA/TSSTPPLRT AGPQLQGQHPTPLPSIWGPLQV NSHRLSLFRMRTLSPSDWASPR HSSGGPKGAENPGNDQGRYSH
7772	38140	A	7826	1	2616	
7773	38141	A	7827	1	504	

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7774	38142	A	7828	1	1068	MAEIQHKTRIFLLEGRDLLAAV KTGSGKTLAVLPAJELVVKLK MPRNGTGVLLSPTRQLAMQTF GVLEKELMTHHVHTYGLIIGSN RSAAEQKLANGINIIIVVTPGRLL DHTQNTPGFMYKNLQVEDLAR ISPCKEPLVYGVDEDKANATVD GLEQGHFVCPSEKRYLLFTFL KKNQKKKLMVFFSACMSVKYYP YGLLKYYDL/PVLAIHGKQKQN KHTTTFF*YCNADSGTLFQLE KLIEKNYFLHKSQAQETYKSYIR AYDSYSLKQIFNINNLNLPHIAL SFGFKLPFVDLNMNSNEGKQK KQGGFGYQTKKVEKSIIFKHIS KKSAAAGSSLTQEMPVILNNF
7775	38143	A	7829	3	1851	
7776	38144	A	7830	1	905	MVFDAYLTGWRFEDTVVQSN MKHOPFIVVNKHNVQVEYKGE TKSFYPEEVFMVLKMKELAET YLGKTVTNAVVTVPAYFNDSQ HQATKDAGTIVSLNVLRIISKPT AAATAYRQKGIDFNTSIFHALF EELNAVLFHGTLDSEKALGN AKLDSQIHDIVL/GPFEQGRH* MYGPGS*EIQS*R*EAEGQDVIQ EFS*KLCIRYESSC*R*ETSRQD* R*GQTEDS**GY*NYQLAG*ES DSEEGRISTSKSGESLQPHNYQP VPEYRRHTRRNAWGIP*WWSS LCWSFPRAPIEAD
7777	38145	A	7831	2	886	ARGACSSWVFCGLRYWSQAY TPATMSKGPVAGIDLTTYSVCV GVFQHGKVEIIANDQGNRTTPS YVAFDTDERLIGDAAKNQVAM NPNTNVFDDAKRLIGR/RFDDAV VQSDMKHWPFMVVNDAGRPK VQVEYKGETKSFYDPDEVSSMV LTKMKEIAEAYLGKTVTNA/V VTVPSYFNDSQRQATKDAGTI AGLNVLRINEPTAAAIAYGLD KKVGAERNVLIFDLGGGTFDVS ILTIEDGIFEVKSTAGDTHLGGE DFDNRMVNHFIAEFKRKHKKDI SENKRAVRRLRTTK
7778	38146	A	7832	2	375	ASIEIDSLYEGIDFYTSITRARFE ELNADLFRGTLDPVEKALRDA KLDKSQIHDIVLVGGSTRIPKIQ KLLQDFYEAVAYGAAVQAAIL SGDKSIENVQDLLSLDVT/PPF LGIEATAGVMTVPHI

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7779	38147	A	7833	1	218	
7780	38148	A	7834	508	883	YYHSYQADT/IILGGEDFDNRM VNHFAIEYKRKKHKKDISENKRA VRRIR.TACERAKSTVSSSTHAS TEIDSLSEGDIYTSSTCASFEEL NADLFLSLDLPVEKALRDAKLD KSQIHDIASINPDEAVAYGAA VQAAILSGDKSENVQDLLLDV TPLSLGIETAGRVITDLIKHNTTI PTKQTQTFTTYSDNQPGVLIQL YEGEHTMTKDDNLLDKFELTGI PPAPRGVPQIEVTFDTNSNGILN VSAVDKSTRKKNKITITNDKGGH LSKEDIEYMVQEAKEYKAEDQ KQR/D/KVSSKNL
7781	38149	A	7835	1	194	
7782	38150	A	7836	1	1482	MVFDKRLIAHRFDDAVVQSE MKHWPFMVVNDAGRPKVQVE YKGESKSFYPEKVSSMVLTNM KEIAEAYLGKTVTHAVVAVPA YFNDSQRQATKDAGTIIVGLNV LRIINEPTAAAYGLDKRHRSSL ILTASLGGAGSL*STQA/SIEIDC LYEGINFCTSITHARFEELNADL FRGTLDPVEKALRDAKFDKSQI HDIVLAGGSTRIPIKQLQDFF NGKELNKGINAEAVAYGIAV QAAILSGDKSENVQDLLLDVDT PLSLGIETAGGTQILTTYSDSQP GVLQIAYEGKHAMTKDNNLLG KFELMGIPAPRGVPQTEVTFD SDANGILNVSAVDKSTGKENKI TITNDKGCLSKEDIERMVQEA KYKAEDEKQRDKVSSKNLES YAFNMKATVEDEKLQGGKINDE DKEKILDKCNEIIWLNENETAK KEEFEHQQKELEKVCNPIITKLY QSAGGMPGRMPGGFPGGGAPP SGGASSGPTIEEVD

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7783	38151	A	7837	2	2221	PRVPRVRSAPALGFFVASFVIG ARPTQQPWSKGA V GIDLGTT YSCVGVFQHGKVEIIAN\DQGN RTTPSYVAFTD\TERLIGDAAKN \QVAMNPTNTVDFCQTV*LDGR FDDAVVQSDMKHWPFMVVND AGRPKVQVEYKGETKSL\YPEE\ VSSMVLT\KMK\EICRSLTLGKT VTNA\VTVP\SYFND\SRQAT KDAGTIAGLNVLR\INE\PTAAA IALQKFRQKRFGAERNVLIIDL GGGTDFVSILTIEDGIFEVKSTA GDTHLGGEDFDNRMVNHFAIE FKRKHKKDISE\NKRAVRLRT ACERAKRTLSSSTQG\SIKIDSL* EGIDFYTSITRARFEELNADLFR G\TLDPGEKAL\DAKLDKSQIS *YLSWVGGSYSYPRLQKSCCQ DFFQWEKELELRSINPGWKAV/ AFIGAAVPGQPFLSGRQVLENV/ QDLLLLADVTP\SPWVLKTAGG VHDCPPSKRNTTIPTKTQTFTT YFWTTQPGCGLFRFYEGRALP WTKDNQPALASFELTGIPPAAPR GV\PQ\EVTFDIDANGYTPWSL AVDKKYGKKRTKITITN*QGPF *AREDIGTYGSEAEVTKLEG GGRQEGTRVSSNDFT*GPMPPN MKSTLLKDEKL\QGRINDEGQ NRRFLDQV*KLKSNWL**ESRL LEKEEFEHQ\KELE*VCNP\IIT QAGTQSARRHCQGGNPWGAFL
7784	38152	A	7838	3	757	PPFGGRVVR\HPVILASTVDSY ERRNKGAARVIGITLLGTVNKH SVEVTSFCFSVSHNESDEVAVDM EFAKNMYEL/H*KVSPNELILG WHDITEHSLVLIHEYYSREAPNP IHLTVDTSLQNGHMSIKAYYST LMGVPGRIVGVFTPLTVKYAFY DTECIRVDLIMKTCFSPNRVVG LSSDLQQVGGASARIQD\TSLIVL QYAEIDLSGKVSADNTIRKVGH FLMSLVNQVPKIVPDDFETMLH SNINDLLMVT
7785	38153	A	7839	1	1821	
7786	38154	B	7840	16	1305	
7787	38155	A	7841	1	359	

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7788	38156	A	7842	2	1085	GVAPWGRGRAAPRCASATVGG SGIGRLR/GITSSGLKMDNKKR LAYAIIQFLHDQLRHGGLSSDA QESLAEVAIQCLETAFGVTVEDS DLALPQTLPEFEAAATGK/EMP QDLRSPARTPPSEEDSAEAERL KTEGKPKQMKIVENF/EAAVHF LTEKPFELNPSQRPSYFCNRAA AYSKLGNAGAVQDCERAICID PAYSKAYGRMGLALSSLQQHLA EAVAYYKKALELDPDNETYKS NLKIAELK/LREAPSTGGVGSF DIAGLNNPGVMSMASNLMNN PQIQQLMSG/MISGNNPLETP GTSPSQNDLASLIQAGQQFAQ QMQSVGIPRVV**SAQESSIRSR TPSASNDQOE
7789	38157	A	7843	225	398	FIIDYTNSCFIHQNICLICSNRNF RQSNVVMICHY*TLQEIKTFC* MNSSLWSIIIF
7790	38158	C	7844	162	269	
7791	38159	A	7845	273	501	HKDQPIQTENDHPSTNFSVLK LHDPLLNEMDLIVWVSF*Q*SC FYLVHPNCCSPLV*HP*SENPKF SNEYFLRVS
7792	38160	A	7846	1	867	
7793	38161	A	7847	185	1325	EEQQTNLASKKKSCIMLEKTEN KIRLVIVSEEEKKKVLKRM* MTVRAHHGSRTPHSWVESNY YWDICDQWMS/EPVGYMPCQH CQVAKNTVIVAPKQHLQGGKI PWSLVTVDLMGAFSYKPKQS/N VYAIIMTDLFTKWIVILPLCDVS ASEVSKAIINIFFLYGPPQKJMD QRDEFIQQINIELYRLFQIKQIVI SHTSGTVNPTSTNTIKAFLSK HCADHPNNWDDHLSAVSFAFN VTHLEPTKNTPYFQMFVKNP LYYLPETSDSLHEVDGDNSTMF AKILDIAIKEADKIMENKTTSLG QMENNLDLDELNKSIIIVKKKPK QLNPFHLKVGHGSEKTEKELV GRMVVFQSWNGVGPLCHRLY YRKWMCCP
7794	38162	A	7848	2	455	MADRLTQLQDAVNSLADQFC NAIGVLQQCVPASFNNIQTAI NKDQPANPTEEYALQFAA/LIA/ RTAKDIDVLIDSLPSEESTAALQ AASLYKL/EEENH/EAATCLGG MLFIEGDMLLGGRYKGA/LDI/ AQSQLEGGSGYP*ASLFPDS

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7795	38163	A	7849	229	560	
7796	38164	A	7850	1	1077	
7797	38165	A	7851	25	690	WPSDEAEGYSEIHFEVFKDVR KRFPQHTIMAGNVVTGEMVEE LILSGADIHKVIGIPGSVCTTRK KTGVGYPQLSAVMECANAAH GLKGHIISDGGCSCPGDVAKAF GAGADFVMLGGMLAGHSESG GELIERDGKKYKLFYGMSSSEM AMEEVLGGVAEYRTS\EGKT/ VEVPF*REMLEHTIPRHP*GGIR STCTYVGA\AKLRRR*ARTNYL HPEVHPAR
7798	38166	A	7852	768	1857	EGGHHFGGQGADSAAPFGSASI LPIKLDVHPHDGRRRAEKSXPG GNPQRQLYCQPPAGCLPGAVY RPRRSRGARMYSRYSPAERRNP DQRAGYCAQPDRLRFSRADD RSRWRHVHFGTSRHCAGDRAV RPPPHSAAEALPVLPVFQ*PTA DQVLFPSLIAACYNNHQNKIL EQEMSCVLLATFIQTAAQRKY KRRNNRGIPRESTAREQARHNA NKAQQPRKHARNGASPAQQRK NRAAADKDEKPAQQKDKAR QSAPEKKNRAIRGTNSREQAAK AERNRRQRGGQKGAQGGQHR EEAGEPTYVDEKAQAATSPPPQ TPHPAPDHDDAEDHRTDTRNR NAHQPKVYTHKDTPTNESR
7799	38167	A	7853	1403	2028	RRIQTNGRTFHAHGGPSRGLPE ELGKDHRKETSSRTL*QFQPN AKSPGQNLRESMNPVC/MTQQ ARRLQRLAKDLLKQVQVQDSG SWANNKVSALDRTLGEITRILE KERSRRGKGPSKEDLEGAAN/G VRRTM/WMSGNLVKESQPHPT HRPNILT*YPSIFP*RSTLLTLWL KVQLQQLK*KMEKSGKKIKKK PKR*KPG*TSGLTNL
7800	38168	A	7854	1	675	

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7801	38169	A	7855	2	1110	AQEEAAKVNEIAFINTLEAQNK RHDVLSKLLKEYQRLNELQEER QRRQEEKQARDEAVQERKRAL EAERQARVEELLMKRKEQEAR EQQRQEKEKAREGAARERARD REERLAALTAQPRSYGRVTEK NSAQA**KYSKAH/RNRLNKEK KKLLS*AVGDMQILIMPPN*PL YERKKQCSLCNVLSSEVYLF HVKGKHKHQAVRENTSIQGRE LSDEEVEHLSKKYIIDIVVEST APAEALKDGEERQKNKKKAKK IKARMNFRakeYESLMETKNS GSDSPYKAKLQRLAKDLLKQV QVQDSGSWANNKVSALDRTL GITRILEKENVADQIAFQAAGGL TALEHILQAVVPATNVNTVLRN
7802	38170	C	7856	65	425	
7803	38171	A	7857	1	1131	
7804	38172	A	7858	953	1311	FLFFIFNYFFFGGRKCPLLVAP RLEVQMAVILGSLQPSPPGFK* FSLPQSPSSWDYRHAPTHAQ NFVFLVETGFHHIGQAGLELQT SGDPPTSASQTAGITGVSHRAW PGTILFLK
7805	38173	A	7859	2	857	FVDIFQRWKECRGKSPAQAE LSYLNKAKWLEMYGVDMMHVR GRDGCESLGLTPTGILIFEGAN KIGLFFWPKITKMDFKKSKLLT VVVEDDDQGREQHTFVFRLLD SARTCKHLWKCAVEHHAFFRL RTPGNSKSNRSDFIRLGSRFKFS GRTEYQATHGSRLRRTSTFERK P**TSLSIPETFNVSQSKQPSDSPA LLKQIQKSNNYQPPISILISIPS PAPGGILTQPMQSGHPFQDDRSH WKASASGDDSHFELCPTTQNP EGLTGMMPKYDVSEINVM TAL

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7806	38174	A	7860	1	936	MELTHLQHPHEQEDVHAVGLL LGLREQHHMVSEGPQQSWQE ERTELAASVRLLFNMYPLLIHK NHASPGIPNLLHPRGLRAITIA VFGKQNTYIRLEPFKINVLEQIT KHIEKLQCGEHNFPQEIQEGK SHQNQHEAHFVVELCKYFLCQ EYLPSTITILTTYTQGLFCLRLK MPAKTFAGVRVHVVDKYQGE ENDIILLSLISNRICVALSRAKKG MYCIGNMQMLAKVSLWSKIIH TLRENNQIGPMLRLCCQNH PET HTLVSKASDFQKVTEEGC/MLP CEFRLCGCHVCTRAWHPYDSS
7807	38175	A	7861	218	580	
7808	38176	A	7862	3	1636	
7809	38177	A	7864	24	386	
7810	38178	A	7865	2	999	GRVGGFFAGNPGSDSFGGLLLG LTPVLRWVADGGTIPKRHEL VKGPKVEKVDKTELVAQWN YCTLSQEKLRRIVAL/CNFAD FYNKIEPVIEFLDKSAEKGSG /RQASHIKTH*RIVDRAESFPDNP CPGKGIGKN/D*KVDKHDDIQA GASSSSVPVGGPGRWNGRHRFL PSGGCGLCCFS*AEPWKEIKAG VCHTCGAGLSRRMMIIVLNGT KEDVDLLKTMMEERRL*SEAG KENKENPRQSLFQNDVSERS PRAIKS*DRGSLKKPAFDSREK KTNLAPKSTAMNESSGKAGK PPCGATKRSIADSESEAYKSLF ITHSSAKR
7811	38179	A	7866	1	559	MGCDGGTIPKRHELKVGPKKV EKVDKDAELVAQWNYCTLSQE ILRRPIVACELGRLYNKDAVIEF LLDKSAEKALGKAASHIKSN VTELKLSERALKKAEVCHTC GAAFQEDDVIMLNGTKEDVDV LKTRWRRREG*ERRGKKTKKP KAAEVCFQNPVDSGRKPQGPS KVKTREALKKPS
7812	38180	A	7867	188	368	YVACMPAWPNVTVANQLFNV YFPARDMTVPSSPG/QPVVDQL STQGQARRDALEVVGYES
7813	38181	A	7868	179	554	LRPADPRSLVPGWALGLGPGAI LGPGRVTFPGGRPPPTHPPLSF PPGGRQPLWVPALPAEEGRE/R LGREREGRGKAGAGMA*AGL VL*CLQLQVQGGPLGGSWLST RLRSPRCHPWLLRRHLP

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7814	38182	A	7869	2	131	YKSELEEQLTSVAEEMRARLSK ELQA*KDRLGENMEKVRGRVLV KYRGEVQAMLGESIEELRVRLA LYLRLKLTGFLRDADHL* RPA GREYGESKRTL
7815	38183	B	7870	1	3639	
7816	38184	A	7871	279	1077	IQHPRLSADDFRNCETEPAM/* HAVENDIHLGCELETEIQAF KEELL/FMKKNHEEEVKGLQAQ IASSGLTVVVDAPISQDFAKIMA DIWAQYDEVAQKNREELDNNR SQQIEESTTVTTQSTEVGA AK AMLTELTRTVQFLEINLDSMRN LKASLENSLREVARYALQME QLNGILLHLESELAQTWAEQQC QAQEQALLNIKVKLEAAIATY RRLEEDGKDFNLGDTLDCSNS MQTIQKTTTRQRMQDGVLSSET NDTKLRH
7817	38185	A	7872	712	855	
7818	38186	B	7873	50	788	
7819	38187	A	7874	201	372	ICQMILKRRVLS* TQKHQATHG WNSAYSLTAPFPVSCQDHL C* P L* AEAQISKEEP
7820	38188	A	7875	3	323	FFFETEFHSAVQTGVQWHD PSS PQPPPPRFK* LSRPSLPSSWDYR HVPSPHGNFLHFQ* KRGSTNQA GLELPTSGDLAAFA\SPSARITG VSHCARPNYQCFLFKY
7821	38189	A	7876	1	911	MLLTLAGGALFFPGLFALCTW ALRRSQPGWSRTDCVMISTR LV SSVHAVLATGSGIVIRSCDDVI TGRHWLAREYVWFLIPYMIYD SYAMYLCEWCRTRDQNRAPSL TLRNFLSRNRLMITHHAVILFVL VPVAQRLRGDLGDDFFVGCIFTA ELSTPFVSLGRVLIQACNM EMT ESLKQQTLLYKVNIGLTLGNF FPCRUILLFPFMVWSYGRKKGL SLVPSTLQHPILTATWANA FPR* APQIYWFCLLLQKAVRLF DTP QAKKDG* MLLGVRRLTPAAS STQHSMQIVPWWASDFGY
7822	38190	A	7877	2	283	SCHCTPAWILALSPRL ECSGAIL AHCNLHLWG*SDSPAS SRVA GTAGACRAWLIFCVL VEMGF HRVA/PGLVLNS* AQTIRLPRP KVLGLQA

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7823	38191	A	7878	1	1042	PKVRSPIRKRLAPAPAFVRKQE LKKIVDPLL*KKS*EFGHLDRDI QPQKRPPPLL*KWPRIYIRV/QG RRAILYKURLKGPFCDDYPGFTQG PGTPQTS*SSLKLVAHKYRPRD KAQRSKQRLLA\RAEKKA GAVPQERAHVPVLRAGV\NPVSP PLVGEQEKLSLVVIA\HDRGSPS ELVVFLPALG/RVKMGVPYCIHK GKGKTGDGLVHQKALHPLSAF TQVNSIEDKGA/ALKLVGSYQ GPNYNDRYDEVGRSFTQNTVIH KFSQITGWLNL*EVLSDDLG TAKQN*RN**PKSQKTVSQAN CLFLSFQIRRHGGNVLGPKSV ARIAKLEKAKAKELATKLG
7824	38192	A	7879	3	472	GRGVAYRGPSPRGTGPRGDE RLQHGGG/SREGPPAAPAAAP GYGQSCCLIEDGERCVRPAGNA SFSKR/VKKSISQKKLLDIDKSV DLFQLQVNTLRRYKRHYKLQT RPGFNKAQLAETVSRHFRNIPV NEKETLAYFIYIMVKSNSKRLDQ
7825	38193	A	7880	3	638	GRGVAYRGPSPRGTGPRVR*T ASARRRTAAKGPPPPQLPPRA TAKSCCLNIEDGERCVRPAGNA SFSKR/VKKSISQKKLLDIDKSV VRHLVNCDFHK\NFIQ/SVRNKR KKEDQVYDGRENS/SPSTDTDIP EVDLFPACQVNTLRLRYKRH* QVARPRPGFNKAPVSRQL*VDT FRNIPVD*KETLALLSSSMVKSN KSLDQKSGGWQA
7826	38194	A	7881	1926	2448	DFIAVITTRKQLKTKYNAHHSK QAITHFSPKISDLILCLKKIM NRHFSKEDIYAAKKHMKKCS SLAIREMQIKTTMRYHLTPVRM AIHKSGNNRCRRGCGEIGTLLH CWWDCCLVQPLCKSMWRFLR DL/DPAIPLLGYPKDYKSCCYK DTCTRMFIAALFTIAKTWNQP
7827	38195	B	7882	446	625	
7828	38196	A	7883	1	1875	

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7829	38197	A	7884	31	809	KPRLENYVKNAAEASGADAINW KKGY/LVMEDEMNMKREGKF REKRIKRNEQSLQEIWDYVYKRP TLHLIDVPETLNAHKRKQERSK TDTLTSQI.KEL.EKQEQTSHSKAS RRQEITKIRAE.LKEIETEKTLQKI NESRSWFFERINKIDRPLARLIK KKREKNQIDAINKNDKGDISDP TEIQTITIREYYKHLIYANKLENL EEMDKFLDYYTLPLRLNQEEVES LNRPIITGSEIVAIINSLPTKKSPG PDGSTAEFYQRYKEEL
7830	38198	A	7885	1	2142	MIILIDAEKAFDKIQPFMLKTL NKLIGIDGYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLSNVSKVSG YKINVQKSAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHHTLGPV VGWGKRGGIALVDIPVNDKL MVLEVLAIRQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLSNFSKVSQYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLE KENYKPLLKEIREDTNKWNIP CSRIGRINIMKMAILPKVIYRFN DIPKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKAWYWYQ NRDIDQWNRTEASEVTSIYNH LIFYKPKDNKKWGNDSLFNKW CWENWLAICRKLKLDPLTPYT KIHSRWIKDLNVRPKTIKLTLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVVIKLSFCTA KETTIRVSRQPTIEWEKIFAIYPS DKGLISRIYKELKQIYRKKVTNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSSLVIREMQIKTTM

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7831	38199	A	7886	209	3816	QGRPTFRFRKYREHHKDTFREE QLQDT*SSDSPKLG*KKC*GQ PERKVKLPTKGSPSD*KRISRQ/ KTLQARRQSWFFKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITTDPTETITIREYYKHLVANK LENLEEMDKFLDTYTLPRLNQE EVESVNRPTGSEIEAITNSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASII LIPKPGRDITTKGNFRPISLMNI DAKIL
7832	38200	B	7887	1	3570	
7833	38201	A	7888	2	1624	
7834	38202	B	7889	67	3156	
7835	38203	A	7890	1	1416	MIILIDAEKAFDKIQPFMLKTL SKLGTDTGYLKIIRAIYDKPTAN IILNGQKLEAFPLKTGTROGCPL SPLLFNIGLEDLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSQY KINVQKSQAFLYTNNRQTESQI MSELPTTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPR DIDQW/NRTEPSEIMPHTYNYLI FDKPEKNKQWKGDSLFFHKWC WENWLAVCRKLKLDPLTPYT KINSRWIKDLNIRPKTIKLTLEN LGITIQDIGVGKDFMSKAPKAM ATKAKIDKWDLIKLSFCTAKE TTIRVNRQPTTWEKIFATYSSD KGLISGIYNELKQIYKKKTNNPI KKWAKDMNRHFSKEDIHAAK KHMKKCSSLAIREMDIKTTMR YHLTPVRMAIHKSGNNRCWR GCGEIGTL
7836	38204	A	7891	1	1932	

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7837	38205	A	7892	1	2347	MELKTKARELHDECTSLSSRF QLEERVSVMEDEMNMNLP KSPGPDGFTAIFYQRYKEELVP FLKLQFSIEKEGILPNSFYEPSII LIAKPGRDTTKKENFRPISLMNI NAKILNKMLANQIQQHIIKLIIH HDQVGFIPGMQGWFNIRKSINV IQHINRTDKDNHMIISIDA EKAF DKIQQHFMKLTNLKLVLEVA RAIRQEKEIKGIQKGEEVKVSL FADDMIVYLENPTVSAQNLLKL IGNFSKVSQYKINVQKSQAFLY TNNRQTERQIMSELPFTIAKRI KYLGIQLTRDVKDLFKENKPL LKEVKEDTNEWKNIPCSWVGRI NIVKMAILPKVIYRFNAIPIKLP MTFFTELEKTTLKFIVNQKRAC IAKSIFSQKNKAGGITLPDFKLY YKATVTKTAWYWYQNRDIAQ WNRTEPSEIMLHIYNYLIFDKPE KNKQWGKDSL FKNWCWENWL AICRKVKLDPFLTPYTKMNSR WIKDLNVRPKTIKTEENLGITI QDIGVGKDFMSKTPKAMATKA KIDKWDLIKLSFCTAKETTIRV NRQPTTWEEKIFATYSSDKGLISR IYNELKQIYKKKTNNPIKKWAK DVNRHFSKEDIYAAKHKMKKC SSSLAIREMQIKTTMRYHLTPV RMAIIKKSGNNRKIQ/GGIWCD RIL*R*TTCTCRVAKEIQSL*RRI/W KRLQRTLSIPVLDAV*PPMF*AS
7838	38206	B	7893	1	1710	
7839	38207	B	7894	1	2265	
7840	38208	B	7895	1	2142	
7841	38209	A	7896	1	1791	
7842	38210	A	7897	1	1878	
7843	38211	A	7898	1	2091	

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7844	38212	A	7899	1	1751	MIISIDA EKAFDKIQQPFMLKTL NKLGDGTYFKIIRANYDKPTA NIILNGQKLEALPLKNGTRQGC PLSPLLFNTVLEVLARAIRQEKE IKGIQLGNVEVKLSLFADDMIV YLENPIVSAQNLLKLISKFSKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRIKYLGIQLTR DVKDLFKENYKPLLKEIKEDTN KWKNI PCSWYGRINIMKMAILP KVIYRFNAIPKLPMPFFTELEK TTLKFIWNQKRARIAKSILSQK NKAGGITPPDFKLYYKATVTKT AWCWYQNRDIDQWNRTEPSEI TPHIYNYLIFDKPEKDKQWGKD SLFNKRCWENWLAICRKLKLD PFLTPYTKINSRWIKDLKVRPKT IKTLQENLGFTIQDIGMGKDFM SKTPTAMGTDKIDKWDLIKL KSFCTAKETTIRVNRQPTKWEK IFTTYSNDGLISRIYNELKQIYK KKTNNPIQWAKDMNRHFSIE DIYAAKKHMKKCSSSLAIREM QIKTTMRYHLTPVRMAIHKKSG NNRNHLDFKHIRILGICYL/D*KI YQP*LHLVSRNRKPEKLSPKQA

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7845	38213	A	7900	I	2540	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQPDLDIDYGLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITSYLSHSAI KLELRQNLTONHSTTWKLNLL LLNDYWLHNEMKAEIKMFET NENKDTTYQNLWDFAKAVCR GKFIALNAHKRKQERSKTNTLT SINKIDRPLARLIKKKREKTQID AIKNDKGDITTDPTMQTTIRE YYKHLANKLENLEEMDKFLN TYTLPRLNQEEVESLNRPIGAE IVAIINSLPTKKSPGPDGFTAIFY /HEL/LKENKIPRNPTY/RGCEGP LQGELQTTAQ*NRGKQKQME HSMMLMDRKNQYRENGHTAQG NLQIQCHPHKATNDFLHRSGKN YFKVHMEPKKSPHRQVNPQPK EQSWRHAI*IQTLQGYSNQN SMVLVPKQRYRSMKKNRRLRN NAAYLQLSNL*QT*EKQAMGK GFLI**MVLGKLASHM*KAETG SLPYTLYKNQFKMD*RLKH*T* NHKNPRRKPRHYHSGHRHGQG LHV*NTKSNNGKSN*QMGSN *TKELLHSKRNYHQSEQATYKL GENFCNLPI*PRANNQNLQ* TNLQEKKNQPHQKVGKGHEQT LLKRRHLCSQKTHEKMLSITGH QRNANQNHNHIPSHTS*NGNH* KVRK*QVLNGLDDVQLFR*NK QPCSHKACLVVSSYRRA*SLV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, \ =possible nucleotide insertion)
7846	38214	A	7901	1	1593	MGKKQNRKTGNSKKQSTSPPP KERSSSPAMEQSWMENDFVEL REEGFRRSNYSLEQEDIQTKGK EVENFEKNLEECMTRITNTEKC LKELMELKTKARELHEECRSLR SRCDQLEERVSAAMEDEMNEMK REGKFREKRIKRNEQSLQEIWD YVKRPNLHLMGVPESDGENGS KLENTLQDIQENFPNLRINKI DRPLARLIKKKREKNQIDTIKN DKGDITTNPTIEIQTITREYYKHL YANKLENLEEMDTFLDTYTLPR LNQEEVESLNRPTITGAIEIVAINS LPTKKSPGPDGSIAEFYQRYKE E/PADKQLQQSLSIQNQCTKITSI LIHQQTNTNREPHE*TPHNCFK ENKIPRNPITYKGCEGLLPGLQ TTAQGNKRGYKQTEHSMMLM GRKNQYRENGHTAQGNF*IQ HPHQATNAFLHRIGKNYFKVH MEPKKSPHRQVNPKEQSWR HHTT*LQTLQGYSNQNSMVLV PKQGYRSMQNRALRNNAAYL QLSDL*QT*EKHAMGK/EFPI**
7847	38215	B	7902	1	2337	
7848	38216	B	7903	1	1677	

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7849	38217	A	7904	1	1722	MAGYPSEMKLPEELSGSNICCS AVFTVLQPLLIPRQTGSGVDL RQPTDLQLRVLTVRRKNKQ KRTSTPKPHLYVTIHKDQSKKL TONHSTTWKLNLLNDYVW NNEMKAEIKMFFETSENKGTIY QNLWDTFKA VCRGKFIALNAH KRKQERSKIDTLTSQLEKEKQ EQTHSKASRRQEITKIRAEQKEI ETQKTLQKINESRSCFFEKINKI DRLLARRIKKKREKNQIDAIGN DKGDITADPTEIQSTIREYYKHL YTNKLENLEEMDKFLDTYTLPR LNQEEDESLNRPITGSEIEAIINS LPAKKSPGPDRTAEFYQRYKE ELHINRTKDKNHMTISVDAENA FDKIQQPFMLKTLNKLVLVLA RAIRQEKEIKGQLGKQEVKLSL FADDVIVYLENPIVSAQNLLKI SNFSKVSGYKINVOKSQAFLYS NNRQTESQIMNELSFTIASKRIK YLGQLTRDVKDLFKENYKPLL NEIKDDTNKWKNNIPCSWVGRIN IVKMGLPKVVYRFNAIPKILPM TFFTELEK\ITLKFIVNQKRARI AMTILS*KNKAGGITLP
7850	38218	A	7905	1	2310	
7851	38219	A	7906	195	791	GILSFAKDMNRHFSKEDIYAAK KHMKKCSSSLAIREMQIKTTMR YHLTPVRMAIIKSGNNRCWR GCGEIGTLLHCWLDCKLVQPL WKSVMWRFLRDLELEIPDPAIPL LGIPNEYKSCCYKDTCTRMFI AALFTIAKTWEPPKCSNMIDWI K/KMWH/IYTRDTMRPKNDEVQ SLVG/TWVNWETTFSTVIAVQK PTRLSH
7852	38220	A	7907	1	984	
7853	38221	A	7908	1	2076	
7854	38222	A	7909	1	1872	
7855	38223	B	7910	1	3309	
7856	38224	B	7911	133	3213	
7857	38225	A	7912	1	1364	
7858	38226	A	7913	1	3249	
7859	38227	A	7914	1	2757	

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7860	38228	A	7915	1	2268	MAGYPSETKPPEERSDSNICSSA IFTVLHPLLIPRQTAFGMDLQQ MPTDLQLRLVLTVKRKTNKQKG HPHQNPRTSPSSKTEDFQPTKI KRDKEGHYIMVKGSIQEEELTI LNIYAPNTGAPRFKEVLKDLQ RDLDSTHIMGEFNTRLSTLDRS MRQKVNKDIQELNSALHQADL IDISRNLHPKSTEYTFPSAPHRT YSKIDHIVGSKALLSKCKRTEII TKCLSDHSAIKLELRINKLTQNC STTWKLNLLNDYVWHNEM KAEIKMFFETSENKDTTYQNL WDTFKAVCRGKFIALNAHKRK QERSKTDLTSLKELEKQEQT HSKASRRQEITKIRAELEIETQ RTLQKISESRSWFEKINKIDRS LARLIKKKREKNQIEAIKNDKG DITTNPTETQTTIKEYYKHLVK NKLLENLEMDKFLNTYTLPRLN QEEVESLNRPTGSEIVAIINSLP TKKSPGPDGFTAIFYQRCKEEL VTFLLKLFQSIEKEGILPNSFYE ASINLIPKPGRDTTKKENFRPISL MNIDAKILNKILANRI/WGN*AE ERNKEYSIRKRGSIQVPCVCR*H DCVSRKPHHLSPOSP*ADKQLQ QSLRIQNQCTKITSILIHQ*QTNR EPNHE*TPIHNCFKENKIPRNP YKGCGLQGLQTTAQ*NRK GHKQMEEHSMMDRKNQHRE NRHTAQGNL*IQCHSHQATNDF
7861	38229	A	7916	1	4729	

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7862	38230	A	7917	1	2685	MGDFNTPLSTLDRSTRQKVNK DTQELNSAPHQADLIDYRTLH PKSTEYTFSSAPHHTYSKTDHIL GSKALLSECKRTEIHTNYLSDDS AIKLELRKLNLTQNRSTTWKLN NLLDDYVWHNEMKAEIKMFF ETNENKDTTYQNLWDFAKAVC RGKFVALNAHKRKQGRSKIDT LTSQLKELEKQEQTHSKASRRQ EITKIRAELEKETQKTVQKINES RSWFFERINKIDRQLARLIKKKR EKNLIDAIKNDKGDITTDPEIQ TTIREYYKHL YANKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGSEIVAIINSLTTKKSPPDG FTAEFYQRAIRQEKEIKGIQLGK EEVKLSLFADDMIVYLENPIVS AQKLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDTNKWKNI PCSW VGRINIVKMAILPKVIYRFNAIPI KLPMTFFTELKKTTLNFIWNQK \RAHIAKS/VLSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMPRIYNYL IFDKPEKNKQWGDLSFNKWC WKNWLAICRKLKLDPFLTPYT KINSRWIKDLNIRPKTIKLEEN LGITIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLSFCTAKE TTNRVNRQPTKWEKIFATYSSD
7863	38231	A	7918	1	1205	
7864	38232	A	7919	1	2274	
7865	38233	A	7920	1	2307	

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7866	38234	A	7921	569	3030	RKH*TWKRTSSTSHHKNNPN* LEKQEQTTH/SKPSRRREITKIRA ELKEIETPKTAQKINESRSWFSE RINKIDRPLARLRKKKREKNQI DTIKNDEGDITTHPTIEHTIREY YKHLANKLENLEEMDKFLDT YTLPRPNQEEVESLNGPIAGSEI QAIINSLPTKKSPGPDGFYQRYK EELVPFRLKLFQSIEGEGILPNSF YEASIIIPKPRDRTTKKENFRPI SLLNINAKILNKILANRIQQHIK KLMHHDQVGFIPGMQGWFNIR KSINVIQHINRTKDKNHMIIISID AEKAFDKIQPFMLKTLNKLGI DGYHKIIRANYDKPTANIILNG QKLEAFPLKTGTROGCPPLSLL FNIVLEVLARAIQKETEGIQL GKEEVKLSLFADDMIVYLENPI VSAQNLLKLISNFSKVSQYKIN VQKSQVFLYTDNRQTESIISEL PFTIASKRIKYLGIQLTRYVKDL FKER/YNEIKEDTNKWKNIPCS WVGRINIVKMAILPKVIYRFNAI SIQLPMTFFTELEKTTLKFIWNQ KRAHIAKSILSKKNKAGGIMLP DFKLYYKATVTKTAWHWYQN RDIDQRNRTEPSEIMPHYVNHLI FGKPDKNKQWGNDSLFNKWC WENWLAICKKLLDPFLTPYT KINSRWIKLNVRPKTIKTLLEN LGNNIQDIGMGKDFTSKTPKA MATKDKIDKWDLMLKLSFCTA
7867	38235	B	7922	1	3171	
7868	38236	A	7923	1	2646	

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7869	38237	A	7924	321	2211	CCQFSMARRGHLPRSVQVSIPIG QSPVPRAAYQDSGRVYKEPTAD C/VGPRQT*CMAPHCHLGGWH MLALSLGKGAGAGGKESTWEP SPGIRMTKTYSTRREQSHPTI/ KGQIKQMNLRETCSWTFHKKF LKTVAQISHPHKNTCLAMAVS ANRSMRQKFNKDTQELNSALH QVDLDIYRTLHPKSTEYTFESA PHHTYSKIDHILGSKALLSKCK RTEITNLYSDHSAIKLELRINKL TQNRSTTWKLNKLLNDYVW HNEMKAEIKMFFETNENKDTIY QNLWDAFKAVCRGKFIALNAH KRKQERSKIDTLTSQKLEKQ EQTHSKASRRQEITKIRAEKKEI ETQKTRQKINESSSWFFEGINKI DRPLARLIKKREKNQIDTIKN YKGDITTDPTIEQTTIREYYKHL YANKLENLEEMDKFLDYTLPL RLNQEEVECLNRPITGAEIVAI NTLPTTKSPGPDGFTAIFYQRC SRWIKDLNVRPKTIKLTLENLGI TIQDIGTGKDIMSCTPKAMATK DKIDKWDLIKLSFCTAKETTIR VNRQPTKWEKIFATYSSDKGLI SRIYNELKQIYKKKSNPIKKW AKDMNRHFSKEDIYAACKHMH KKRSSLAIREMQKTTMR
7870	38238	A	7925	1	3057	
7871	38239	A	7926	1	1830	
7872	38240	B	7927	1	3192	
7873	38241	A	7928	1	3484	MGTSVQNGEERAGTSGQGSV EQLSGSSVQLPPGLKLCFEPYFS SCASDCILHASPLSLMAASGSQ NPNLWASWLCKWVQCPEQ LGCHLTSSVIYGLRYYPQAKRS ELELRDCEGLCNQTSPLSLDG MGWKAEEESNSGIRNIWIPI AFATHKQYNVRQVISPPPYWS HRGNGNNSLCVTRLSSGLKQP VAGTGRGLEGGSGTRDLMPPFL SAAPKEQPPILAPARRSWFFEKI NKIDRLRLARLIKKRE

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7874	38242	A	7929	I	1946	NLTQNRSTTWKLNLLNDYW VHNKMKAEIKMFFETNENKDT TYQNLWDTFKAVCRGKFIALN AHKRKQERSKIDTLTSQLELE KQEQTHSKASRRQEITKRAEL KEIETQKTFQKVNESSWFFERI NKIDRPLARLIKKEKNQIDAI KNDKGYITDPTIEHTTIREYYK HLYANKLENLEMDKFVGTYT LPRLNQEEVESLNRPIITGSEIVAI INSLPTKKSPGPDGFTAEFYQRY KEELAGRDTTKEENFRPISLMN IDAKILNKILANRIQQHIKKLIH HDQVGFIPGMQGWFNICKSINV IQHINRTKDKNHMISIDA EKAF DKIQPFMLKTLNKLVLVFLAR AISQEKEIKGIQLGKEEVKLSLF ADDMIYVLENPIVSAQNLLKLIS NFSKVSQYKINVQKSAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTRDVKDLFKENYKLLSK EIKEDTNKWNIPCSWVGRI VKMAILPKVIYRFNAIPIKLPM FFTELEKATLKFIWNQKRARIA KSILSQKNKAGGITLPDFELY KTTVTKTAWYSYQNRDIDQW NRTEPSEITPHIYNYLIFDKPEK NKQWGDLSFNKWCWENWLA ICRKLKLDPLTPYTKINSRWIK
7875	38243	A	7930	I	4801	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRAEITNYLSDHS AIKLELRINKLTQSRSTTWKLN NLLNDYWVNNEMKAEIKMFF ETK\ENK\DTTYQNLWDFAKAV CRGKFIALNAHKKRQERSKIDT LTSQLELEKQEQTHSKASRRQ EITKRAELKEIETQKTLQKINES RSWFFERINKIDRPLARLIKKKR EKNQIDTIKN

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
7876	38244	A	7931	1	3146	MGDFNTPLSTLDRSSRQKVNK DTQELNSTLHHADLIDYRTLHP KSTEYTFFSAPHHTYSKIDHVV GSKALLSKCKRTEIITNCLSDHS AIKPELRICKLTQNRSTTWKLN NLLNDYVWHNKMKAIEKMF ETNENKDDTTYQNLWDTFKAVS RGKFIALNAHKRQKRCRCKIDTL ASQLKEVEKQEQTHSKASRRQ EITKIRAEKIEITQKTLQKINES RSWFLERINKIDRPLARLIKRR EKNQIDVIKNDK
7877	38245	A	7932	1	2669	MHNTDGNRFLSHWGYRQALSI SKPASASLHPSSKTKPLGTQSKT VVAKRNRHGGKERSSSPAME QSWMENDFDELREEGFRRSNY SELREDIQTKGKEVENFEKNLE ECTRITNTEKCLKELMELKTK ARELREECRLSRCDQLEERR KQERSKIDTLTSQLEKEKQEQ THSKAGRRQKITKIRAEKIEIT QKTLQKINESRSWFFERINKIDR PLARLIKRRKREKNQIDTIKNDK GNITTDPTIEQTIREHYKHLYA NKLENLEGMDKFLDITYTLPLRL NQKEVESLNRPTGSEIVAINS PTKKSPGPDGFTAIFYQRYKEE LHINRAKDKNHMISDAEKAF DKIQQPFMLKTLNKLVLVFLAR AIRQEKEIKGQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLL SNFSKVSGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLGQLTRDVKHLFKENYKPLL KEIKEDTNKWKNI PCSWVERIN IVKMAILPKVIYRFNAIPIKLPM TFFTELEKITLKFIVNQKRARIA KSILSQKNKAGGITLPDFKLYY KATVTKTAWYSYQNRDIDQW NRTEPSEILPRIYNYLIFDKPEKN KQWGKDSL FNKWCWENWLAI CRKLKLDPLKPYTKIKSGWIK DLNVRPKTIKTEENLGITIQDI GMGKDFMSKTPKAMATKAKID

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/546,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
7878	38246	A	7933	1	2962	MNNSIKEKVKLSLTQWEMQTK PNNNTVDLKDQAEVNLSTDY RKQHVMLPTEINSDDSLKIGVI RLANWIKSQDPSVCCNQETHLT CRDTHRLKIKGWRKIYQANGK QKKAGVAILVSDKTDKPTKIK RDKEGHYIMVKGSIQEEELTIL NTYAPNTGAPRFIKQVLSDLQR DLDSYTLIMGDFNTPLSTLDRS TRQKVNKDTQELNSALHQVDL IDYRTLHPKSTEYFFSAPHHT YSKIDHILGSKALLS
7879	38247	A	7934	1	4220	MGDFNTLLSALDRSTRQKVNK DIQELNSALHQADLIDYRTLHP KSTEYFFSAPHRTYSKIDHLV GSKALLRCKCRTEIITNCLSDHS AIKLELRKKLTQNHSTTWQLN NLLNDYVWHNEMKAEIKMFF ETNENKDTTYQNLWYVKDTRI SGMLWYVKAVCRGKFIALNAH KRKQERSKIDTLTSQLEKEKQ EQTHSKTSRRQETIKRAELKEI ETQKTLQKINECRSWFFEKINKI DRPLARLIKKKRE
7880	38248	A	7935	1	3229	MGKKQNRKTGNSKTQASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELREECRSLRSR CDQLEERVSADEMEMNEMKRE GKFKREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTLRDIIHQENFPNLARQANVQIQ EIQRTPQRYSSRRATPRHIIVRFT KVEMKEKMLRAAREKDRSTRQ KVNKDTQELNSA
7881	38249	A	7936	1	3227	MGDFNTPLSTLDRSTRQKANK DTQELNSALHQVDLIDYRTLH PKSTEYFFSAPHHTYSTTDDHIL GSKALLSKCRRTETITNYLSDHS AIKLELRKKNLTQNRSTTWKLN NLLNDYGVHNMKAEIKMFF ETNENKDTTYQNLWDAFKAV CRGKFIALNAHKRQERSKIDT LTSQLEKEKQEQTHSKASRRQ EITKIRAEKEIETQKSLQKINE SRSWFFERINKIDRPLARLIKKK REKNQIDTIKN
7882	38250	B	7937	1	2089	

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7883	38251	A	7938	1	3527	MELKTKARELREECRLSRSPCN QLEERVSAEMEDEMNMKREG KFRDKRIKRNEQSLQEIWDFVK RPNLRLIGVPESDGENGTKLEN TLQDIIQENFPNLRQANIQIQEI QRTPQRYSSRRATPRHIIVRFTK VEMKEKMLRAAREKAPHHTYS KIDHILGSKVLLSKCKRTEIITN YLSDHSAIKLELRJKNLTQNHST TWKLNLLNDYVWVHNEMKA EIKMFFETNENKDTTYQNLWD TFKAVCRGKFIALN
7884	38252	B	7939	1	5238	
7885	38253	A	7940	1	3587	MENDFDELREEGFRSSNYSEL WEDIQTKGKEVENFEKNLEECI TRITNTEKCLKELMELKTKARE LHEECRLSRSCDQLEERVSAM EDEMNEMKGEGKFREKRIKRN EQSLQEIWDYVKRPNLHLIGVP ESDGENGTKLENTLQDIIQENFP NLRQANVQIQEIQRMPQRYSS RRATPRHIIVRFTK VEMKEKILK AAREKDRSTRQKVNKDTQELN SALHQADLIDIDIYRTLHPKS TNEYFFSAPHHT
7886	38254	A	7941	1	6202	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH LKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSHDS AIKLELRJKNLTQNRSTTWKLN NLLNDYVWVHNEMKA EIKMFF ETNENKDTTYQNLWDAFKAV CRGKFIALYAHWRKQERSKM DTLTSQLEELEKLEQTHSKASR RHEIAKIRAELEIE
7887	38255	A	7942	2	3134	WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYIMVK GSIQQEELTILNIYAPNTGAPT QQVLSDLQRDLDSHTLIIGDFN TPLSTSDRSTRQKVNKDTQELN SALHQADLIDIYRTLHPKSTEY FFSAPHHTYSKIDHILGSKALLS KCKRTEIITNYLSHSAIKLELM IKNLTQNHSTTWKLNLLNDY VWVHNEMKA EIKMFFETNENK DTTYQNLWDTFKAVCRGKFIAK NAHKRKQERS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met bod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, **Stop codon, /-possible nucleotide deletion, V=possible nucleotide insertion)
7888	38256	A	7943	1	4455	MELKTKARELREECRLSRRRN QLEERSVAMEDEMNMKREG KFREKRIKRNQSLQEIWDYVK RPNLRLIGVPESDAENGTKLEN TLQDIHQEDFPNLAQANVQIQE IQRTQRYSSRRATPRHIVRFT KVEMKQKMLRAAREKDFKPT KIKRDKEGHYIMVKGSIQEEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKIS
7889	38257	A	7944	1	6108	MTGSNSHITILTININGLNSAIK RHRLASWIKSQDPSVVCIQETH LTCRDTHRLEIKGWRNIYQANG KQKKAGVAILVSDKTDKPTKI KRDKEGHYIMAKGSIQEEELTI LNIYAPNTGAPRFIKQVLSDLQ RDLDSHTLIMGDFNTPLSTLDR STRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTEYTFSSAPHH TYSKIDHIVGSKALLSKCKRTEI ITNYLSDHSAIKLELRKIKLTON RSTTWKLN
7890	38258	A	7945	2	788	CGLAIYNCTIVDLHFPLALYKK LLKKKPSLDDKELMPDVGRS MQQLLDYPEDDIEETFCLNFTIT VENFGATEVKELVLNGADTAV NKQNRQEFVDAVVDYIFNTSV ASLFRCSFSGFGKVCGGKGLAR LFQPNELQAMVIGNTHF*WKG TGKDYRNTKGNIAEHPITIKIF WEVFHLEPLEKKK/RFLFLTG SDRIPILGMSK/LVQSTGGG EEYLPVSHTCFNLADLPKYTK KETLRS*T*SQAIHNEGFSLI
7891	38259	A	7946	1	1647	
7892	38260	B	7947	363	550	
7893	38261	B	7948	1	1123	
7894	38262	A	7949	1	3136	MVTHQQPAARKPNMTSKPKP MGPKAHGIFSGTRKNNLEIYMD QTRTGIAKTKLSKNNKSGGMT LPDFKLYYKAIKACGGS NSDTEDEETEPSSSQQIENSI TMNKMMLLKAKMKNMNLSSK HITQVSEDEEDDDGCDLFADSE KEEKDIEDIEENTRPKRSRPTSF ADELAARIKGDVAVRVDDEPTT VSYEDDRRGKNQDAYTEGGLS TIKTVNCSSSLTLRRSKTSEDITQ EKKERRTPSDEED

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=-possible nucleotide deletion, v=possible nucleotide insertion)
7895	38263	B	7950	303	1010	
7896	38264	A	7951	3	280	
7897	38265	A	7952	3	514	FYLKELDPAEHSYVLIRKIDPAL VWGLTGDDGTPKTRLLMITLD SIFMQASCVPPEEVVWEVLRVLE AHVSSKKHFVFGESMKLITKAS VQGEYLVHK*VSHSNPTLYVFL WGLSKETRQMEVPEFVAKVND THPSSFSVGSK*GI*EKEGGRYP VPMEGSCRLVTVTASV
7898	38266	A	7953	2	351	
7899	38267	A	7954	2	529	EKGERPHWSNKPNSNLKRTHL DIDENPASDFDDSGSLGFKYG SGQKYGGIPYFSHRQVR**EKN VKLKAKYLNMRGQIKMKNKIH FFTKETEPFFKKSKILSKVEKF LTWVYNKPMDEEASQESSHDN GHDASTCDSEEQDMSVKKGD DLLETNNPEPEKQCSVSSAGEL
7900	38268	A	7955	1	1370	MPVGTSNFLLGLLENPNLPLT RPSFPFSQREASWGQKATTGP GEGECTRLGFSLLLDVFCALHG PREKCVIELRSGHLLAISPGGVR EALISDETYNIVWGHRRGFAQV AIDAKVVEKFLTWNKPMDEE ASQESSHDNVHDASTSSDSEE QDMSVKKGGDLLETNNPEPEK CQSVSSAGELETENYERDSLLA TVPDEQDCVTQEVPSRQAETE AEVKKKKKKKKKKVNGLPPE IAAVPELAKYWAQRYRLFSRFD DGIKLDREGWFSVTPKEIAEHIA GRVSQSFKCDVVDAFCGVGG NTIQFALTGMRVIAIDIPVKIA LARNNAEVYGIADKIEFICGDFL LLASF*KADVFLSPPWGGPDY ATAETFDIRTMMSPDGFELRSL KKITKNIVYFLPRNADIDQVAS LAGPGGQVEIQNFLNNKLTI TAYFGDLIRRPASET
7901	38269	A	7956	3	560	RIHTGEKPYDCKDCGKAFGRTS ELILHQLRHTGVKPYECKCGK TFRQHSQILHQRTHTGEKPYV CKDCGKAFIGLQLTVHRIHT GARPYGVLECKGESLLDSTHS* LLHQRHTGEKPYECKCGKG FIHSSEVTRHQRIHSGEKPYECK ECGKAFRQHAQLTRHQRVHTG DRPYESAED

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
7902	38270	A	7957	155	1288	HTTASQTTMSQAVR/RRRSDYL SSARR/RRDPARSKPTQGGPPPN PPPTRQGRPTALTNPSPQRPRHR AHPHQHATPKPRTNEEQEGR HTKQPNPTRTTEPRPPNRRGRPN PQTRRTKQQNTTTPQAHTSTRKN ARTPGLCP*CVKGKTEGGYDA RASARGPYMAGVSWPGEHEDP GAPEARRGRRALPG/GSAFPEM STHTESTPKTTAHTSNDRRNRE QRVKKKTYKTTRSGANRNST ERHEDGYFYGSLTTGPLPWHSA IHSVSAGQPWSLKFTVGLQQAS EGYFSQSQERSLPNRKSSVPRLR LLFLQQASRLSELPLGTGPGSL LLRPRELACTGKRRKTGGAIM GEVSVCELSLPAPAFQSPVQLC GCQPEKA
7903	38271	A	7958	1	2045	REAAAAATSPFPSSSVRPSVRAS VRSARSGPKHGRRQLQRPPGA /RWRLTRR*SERRARPTGLCTH MKMAPMTSSLQHGEKGACRSF RDTLRTTR*CTASAVSRTPKIRS AKIRAHQLGGRRC*A*CPQVRLC QPRG*GGRVLPGCRDRERQQ RGRHRRGCHRAAAL*RAGATL QPCAAPTAARG*ER/SSPWAPP TRRRMLWK*SGLTESSGSRP RRKKSCGRRRSGRPPWMRGSG SSRSQWSRSGRSKRSASGATGS GSSRSRSTGNSRL*KRRRPRG G*RSSLVLTIGMRKRPT*RSQ SRRWRRQQLLPSGLTTQSSSS SSRKESHRLRAAVMYPRPSTI DQAATWTATGGWRPLSPRGA RLTPAPPPPLSLSR*SGPWMRSP P/PQPPPLPPPPPPKRPRSPAPS* TVRRPEQQPLRPGPAPWRSPLR HRRLPGGQAALQRT*CSWSLQS RLSWLLPWSLPQLTPRRSTMQL TPLKLTPLLTPLPTTYPPPPPA SLTYGLATGKGPPHSRVSPGPP RHPRVLRSWPQRCPWWRWL RSHCCQQAQAVPPFSTLMSCL RQPPSVTQRKWKGPWLP RPQ LCQPQLRSWSKSRSPSTC*PM ARPPRRRRGRPSSEGYFSQSSEEE FAQSEELCAKAPPPVFYNKASE NVIHMLGCRPSSRRGGGLRGW
7904	38272	A	7959	3	174	

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7905	38273	A	7960	3	862	GVMASRTLLLLLGALALLET WAGTHSIRYFSTAVSRPGREP RYIAGVGYDDTQFIDAATPRM* PQSPWLEQEGPEYWDSTRNIR PAHRLTRVNLMPRRYYHS* AGTGIFHGIRRYIPDTCVQTHM IHHSVSDYKATLRCWALGFYP VEITLAWQ/QDEEDQTRDHE/L VETRPAGDGTQKWAADVVP GQEQRYSCHVQHEGLPKPLTL RWEPSSTPIPIVGIAGLVLFGA VITGAVVAAM/WQEEELRTFS SHR*SELTSERASSDHAQGS SLTACKV
7906	38274	A	7961	1	591	MVTDYAIELFLQASILLSSSTLP YNEREMGLSIFALLTLTVFLLL ADKVPETSLSPVPIIKYLMFTMV LVTFSVILSVVVLTLHHRSPHTH QMPLLVPSDLHSQTSVAPASKK AQTRERPDAGAPSLFFSRKWLG YIARQLQEEDHD/VAEGGLAV CGHSGPPLPVDFHHLHQRWD PSHLPRGHVPLAPSRPLSL
7907	38275	A	7962	1519	1888	ILKHPTLDKELITYLFIYLFIL RRNFTLV*ARVQWCDLAPPQ PLSPGFKPFSCLRFPSSWDYRYA PPYLANFVFLVGTGF/SMLVRL VSNSRPQ/CDPPASASQSIGTG VNHHARITFNF
7908	38276	B	7963	280	1977	
7909	38277	A	7964	994	1651	CRGSQAPPLTPHPNAPLGP LHSQTSVAPASKKAQTR/GDLM PEPPHCSSPGSGWGRGTDEYFIR KPPSDFLFPKPNRFQPELSAPDL RRFID/VSKPGCPASGATGGV SSISYIARQLQEEDHD/VAEGG LAVCGHSGPPLPVDFHHLHQ RWDPRSSWSHVPLAPSRPLSL KTGGLRPGPLPVEVREPGDVK PYPPLPNSFTNLGLLFRSG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *Stop codon, /-possible nucleotide deletion, ▽possible nucleotide insertion)
7910	38278	A	7965	10	533	DEVSLCCQAGVQLHDVQSLQT ASQVQAILLPQPPVEAIEISGACH HACLIFVFLVEMGFHHIGQAGL KLPTSGDLPASASQSAGITGVS HRARPASSYLFFF*DEVSLCCQ AGVQLHDVQSLQLPPRFKRFS C/PASRSS*DFRRLPPRLPNFCIF/ M*RWGFTILARLVNSRPQ/CD LPASASQSAGITGVSHRARPASS Y/CIFFLRWRLTIAQAGV**CNL SSLQPPTPGFKWVSCSLPSSW DYRSLPPLPANFCIFSRDGVSLC SLSWSRTPDFK
7911	38279	C	7966	312	467	
7912	38280	A	7967	31	678	TGLYFLFLFCLRRSLA/SVAQPG VQWRDLGSLQAPPGLRRFSFL SLQSSWEYRCPLRPADFLYF*S RRGFSTLVRI.VSNSRPQ/CDPPA SASQSAGITGVSHCAR/LFFSFE MEFRSVAQAGVQWRDLDSLQ PLPPGILT*FSCLSLPRLGAA/WD YRRVPPCPAIFC/IFFFSRDRVS PCWSGWSQTPDPQVIRPPPSQ SAGITGVSHRARPISHS
7913	38281	A	7968	23	99	YTMTPGPGCWRL*TGPHPPHT WPGGSSSHQIPHRPPCVFG
7914	38282	A	7969	144	1239	ERTEPDH/TTTLT*P/ELPADTTA TVEDMLPSVTSVTNSDTITETF ATAQYILTSETTTLTSSIAPPAT ATPDSNSVPAQATPSKGPSAS APSPAPASAPKVAPLVDSLDT TSTPAASNLSSSVLANQGAVLS PSAPAGVGEASKAPPASKPTPA PVPTPTGAASPLAAAAAPATEA PQAKQEA PSTKGPDPPTQPGA AKSPAEEAALASPKSEAAVS TTNPSQGEDFKMDEGNFKTPDI DLAKDVFAALGSPAPAAGASG QAPELAPSTADSSVSPAPAKTE YGLSLSAVIGLCPVVS GWEDSG LPSIKWLLGLKVQEKGLNLSGK NTASGINLGL EEERTRSSDSVLL NYGCTLES LGCF
7915	38283	A	7970	3	375	ARQAMKSLHQCFLLTRQAL EASSCNSTGWGEGTGKSGLQ RGP*NCQWEPSPAQQAFTSS* AVATAAGQGEELPLLPSTTP GKN TASGINLWLEERTRSSDS VLLNYGCTLKSLACF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v-possible nucleotide insertion)
7916	38284	A	7971	1	2230	MFEASVGFWMRLREERTRLDHI QAQDEAVTADLEAAAGYPDLA KIIDEGGYTKQIFSVDDTAFS WKKMTLRTFIAKEGTNTDGAS SATSSLVSLCLELCLRAHHDV GFYCDLDVYQSAVYAPCTPTG YSLPQAKEESDFIPLEYEKGRIT STAGQQQDVPEMEQLEKGSIK GVTETRTGPLGCSNYDNLDSVS SVLVQSPENKVQLLGLQVLLPE YLRERFVAAALSYITCSSEGL VCKENDCWCKCSPTFPECNCPD ADIQAMEDSLLIQDSWATHN RQFESEEFQALLKRLPDDRFL NSTAISQFWAMDTSLQHRYQQ LGSWL*KVLFKKTHRILRRLFN LCKRCHRQPRFLPKERSLSYW WNRIQSLLYCGESTFPGTFLEQS HSCTCPYDQSSCQGIPCALGE GPACAHCAPDNSTRCGSCNPG YVLAQGLCRPEVAESLENFLGL ETDLQDELKYLKQKQDSRIEV HSIFISNDMRLGSWFDPSWRKR MLLTLKSNKYKPLVHVMLAL SLQICLTKNSTLIEPVMAIYVNP FGGISHSESWFMPVNEGQFSL TWIERTNVDAALQ/CQNWMT HLGGIRWKTFFETVHVYLRSR IKSLDDSSNETYYEPLEDDWIP LRNLGYMKINTLQVFGYSLPF DPDAIRDILQLDYPTYTQGSQD SALLQIELDRVNQLSPPGKV
7917	38285	B	7972	62	232	
7918	38286	A	7973	3	258	KLSPPPPPLPPSPPLPRPGPA/GPP SRLPSP/PASASPOGVP*LGPA AELPGIRSR*PQVAAPAEATH WCCC*RSSPQQQRISH

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7919	38287	A	7974	1	1048	MAHSQNSLELPININATQITTAY GHRALPKLKEELQSEDQTRQK ALMALCDLMHDPECIYKAMNI GCMENLKALKDSNSMVRICK TEVLHITASHSVGRYAFLHDI VLALSFLNDPSPVCRGNLYKA YMQLVQVPRGAQEIIISKGLISSL VWKLVQVEVEEEEFQEFILDTLV LCLQEDATEALGSNVVLVLKQ KLLSANQNIIRSKAARALLNVSI SREGKKQVCHFDPVILVHLK DPVEHVKSNAAGALMFATVIT EGKYAALEAQIIGLLELLHSP MTIARLNATKALTMLAEAPEG RKALQTHVPTFRAMEVETYEK PQVAEALQRAARIAISVIEFKP
7920	38288	A	7975	1	782	MAVTAACWSLRPLARRDVCV GVALASPFVKPTHWFCKTLLEP CRPTGMGAQEIIISKGLISSLVW KLQVEVEEEEFQEFILDTLVCL QEDATEALGSNVVLVLKQKLL SANQNIIRSKAARALLNVISIRE GKKQVCVHFDVIPNPWSHLLKD PVEHVKV*RCRLPLMFAITVIT EGKYAALEAQIIGLLELLHSP MTIARLNATKALTMLAEAPEG RKALQTHVPTFRAMEVETYEK PQVAEALQRAARIAISVIEFKP
7921	38289	A	7976	1	300	VEQTGRGE/RAYDIYSRLRNA FLCVMGPIDDSVASLVIAQLLFL QSESNKKPIHMYINSPGGVVT GLAIYDTMQYILNPICLTLPRTVR MSPRWCRRSL
7922	38290	A	7977	2	470	RPPQRTLQNGLALQRCLHATAT RALPLPIVVEQTGRGEASYDIY SRLLRERIVCVMGPIDDSVASL VIAQLLFLQSESNKKPIHMYI/N QPSGGARGQATDIAIAEEIMK LKKQLYNIYAKHTKQSLQVIES AMERDRYMSPMEAQEFGLDK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
7923	38291	A	7978	3	864	SCRYPALGPRLAAHFPAQRPPQ RRPPRTACSLQRCLHA/TATRAL PLIPVVEQTGRGERAYDIYSRL LRERIVCVMGPIDD/SVA/SLVI AQLLF/LQSR/SMKPIHMYIN/S PGVWVVTAGLGHLTDITAVTF LQPDFTW/CSLGPGAASMSGSL AFFAAGTPGMRHFAQPLPVFMI QPALQEGAGGQSPPDIAIQAE NP*KL/KKQ/YNI*RQRTTQTRS LQGDRVPPMAEGTA*HEAPME GPQEFGLKTRFLVPPSPQDGE/ DEAPRLVQKEPVEAAPAEVP
7924	38292	B	7979	1	2088	
7925	38293	A	7980	412	812	FQSLFTCVLFHFKFSLTIHHMNS QPF*RIRSTFFFLKQSL/DSVTQA GVQWRDLGSLQPPPPGFKQFSC LSLPSSWDYRRAPHPANFFYF F**QTG/FTHVGRMVPI*PRDPP ALASQSPGITGMSHCTRPRJR
7926	38294	A	7981	2	178	
7927	38295	C	7982	279	322	
7928	38296	A	7983	2	760	GVRSSGGGR/GRPGGGPRKARR GKAEDKE*MPVTKLGHLVKDM KIKYLEDV/YFSLPIKESETIDFF LGSSLKEEGLKIMPVQKQTRAG QRTRFKAFVATGDYNGHVGLC VKCSKEVATAIRGSVILTKHSIV PVRRGY/WGNKMDK/PHTVPCK VTGRGCSVLVHLIVSAPVPKLL LMMAGIDDCHTSARGCTAT/LG NFAKATFTDTSKTYSYLTLDLW KETIFTKSPYQEFTHDLVKHTH RVSVQRTRAPAVATT
7929	38297	B	7984	318	406	
7930	38298	C	7985	333	439	
7931	38299	A	7986	2	171	
7932	38300	A	7987	1	668	MGGLFWRSALRGLRCGPAPG PSLLVRHGS GTIMGVFVAVGTI PVPSRVPCIEADTLKPGGPSWT REKTLVA VKPDGVQRRLVGDV IQRFERRGFTLVGMKMLQAPE SVLAEHYQDLRRKPFPPCPSSR YMSSGPVAVMWEGYNNVRA SRAMIGHTDSAEAAPGTIKGV DFSVHISRNVHASDSV/EGAQR RIQLWFQEQ*SWVSWA/DIGGO HSSIHPA
7933	38301	A	7988	1	897	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
7934	38302	A	7989	1	142	MEYYAATKNDEVMFSV/GT/W MKLETILSKLTQEOKTKHHMF SLISGS
7935	38303	A	7990	287	1086	EPWREMFISVYTLQKLGAFTI AKTWNQPKCPSMIDWIKKMW H/YTMEYYAAIKKDEFMSFER TWMKLETILSNLTQEOKTKHR MFSLSISGSRMRIHGHREGNITC QGLLGGEVCVHTVATRGSPSATE DESCRMNVNDYGGNSPSTLQV KTSPPQRAEKGNNVRTWLYSN LVCWPSLGSMLMGKLRDRVIKR VIYTHTAGDVMHEEGFQFPLK QVSLLLCAIAFQPSLVVAAALV HITMEAYTYLEVTLTLLQIHSPLFC FLPKCHF
7936	38304	A	7991	1550	1835	DTISHQLEWQSLKSQETTALLTI AKTWNQPKCPSMIGWIKKMW HIHTMEYYAAIKRNEFMSFAGT WMKLETILSKLTQEOKTK/HH MFSLSIRGS
7937	38305	A	7992	164	647	DLPVEPHIGKMILFEALVL/HCL DPVL TIAASLSFKDP/FVPLGKE KIADARRKELAKDTRSDHLTV VNAFEGWEEARRRGFRYEKDY CWEYFLSSNTLQIM/MKIHKAVI CAGLYPKVAKIRLNLGKKKK/K VKVYTKTDGLVAVHPKSVNVE QTDHFHYNWLI
7938	38306	A	7993	66	345	

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7939	38307	A	7994	1	2367	HRVTVISGETGCGKTTQVTQFI LDNYIERGKGSACRIVCTOPRRI SAHSSCGKSSCRKGQNLVASGN STGYQIRLPESVAQGNRVLSYT VPTRNHPSSGSDPYLSSVSHI VLDEIHERNLQSDVLMTVVKD LLNFRSDLKVLMSATLNAEF SEYFGNCMPHIHPGTFPPVVEYL LEDVIEKIRYVPEQKEHRCQFK RGFMQGHVNSQEKEEKEAIYK ERWPDYVRELRRRYASTVDVI EMMEDDKVDLNLIVALIRYIVL EEEDGAILVFLPGWDNISTLHD LLMSQVMFKSDKFLIPLHSLM PTVNQTQVFKRTPPGVRKIVIA TNIAETISITDDVVYVIDGGKIK ETHFDTQNNISTMSAEWVSKA NAKQRKGRAGRVPQGSLLFICI NGS*EASLLGWITQLPEIFEPEPF WEGTLFTK*RFLRLGEIAYFLSR *MDPPSNEPVLLSIRHLRSLNA LDKQEEITPLGSHLARLPVEPH IGKMILFAGLFCCLDPVLTAAS LKFO*SPFVPLGKEKIADARRK ELAKDTRSDHLTVVNAFEGWE EARRRGFRYEKDFCWEYFLSS NTLQMLHNMKGQFAEHLGA GFVSSRNPKDPESINSNDNEKII KAVICAGLYPKVAKIRLNLGKK RKMVVKYTKDGLVAVHPKS VNVEQTDHFHYNWLIYHLKMR TSSIYLVADCTEVSPYCLLFFGVG
7940	38308	A	7995	25	312	WLIVITDARMYRQGRYYFL VSSSLDKVLMISFLLGWRRSSR RLRAFLVLHLRASPWAPRSFVR PVSAFSGVMCHMKTRVFENTF PFTLGHTVRYVGREIF/CRRVFT RYRESIKISLPTYLTVCPRVKGN VFSNTRVFMWHIPTLKADTGRT KLLGAQGEARRCKTKKARKRR EERLQPNKKEIKTLSKEEETKK
7941	38309	A	7996	2	417	QQIRKLIKVLIIHKPVIVHSQV GCQKSTFS/RTRKGRHMG*GTR KSTANFQMPKVTWWMRRMRL HWFGRYHESKKTDDHMYHSL YLKVVQGNMFTNKQILMEHNNK LKADKAHKFLADQAEARSSK TNKASKLREER
7942	38310	A	7997	3	124	KKRPELRDLLNQARKETU/ARK EDRSASSGAEGDVSSEREP

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7943	38311	A	7998	911	1497	SQRKARDQRRKRNRKASSIAK HKEPKRPILPSGKNSQEGVATH TKPLAQGGKVLDP/NETNEIPN ANFRQQIRKLIKDGILRHRKPV TVHSRAQGWKSLTARRKGRHL GIESKKIDRHMVHSLYLKLGKN VFKHKRILTEHSHKLKADKAR KKPLADQAEARGSKTKEARKL REEHLQTKKEIHKLSQEEKAK
7944	38312	A	7999	34	279	EVIHAAIGKEKGSY/NA**PWVE EQLTRQPLIHHPASLHVSYY/RC RYHSLYLKVGKGVFNKRLIM EHIHKLKADKARKKLLA
7945	38313	C	8000	351	530	
7946	38314	A	8001	356	921	WRATACTYPSWAPPRILVATGP AAVSAGLPSLHGTRAGPQAPCT AAVPPAPLPPHRPAS*G/MPAGP VQKGAPT/AAAAG*RLKKGQS RRQGRGGAERTGCGHAVTFQ DCFLRCFFG*C*CLSG/ERAIALE QGASHAAEQLPRLQAFKRPGL /QVNPDAQKSAASSSLKVLGS LPKHQRPRRFCQNTGS*SGP**T TGRRSAAGAA/GKPNPGSPPA PHNFKSGTNPVATTHHPVGSKP RPEPHGNSEA
7947	38315	A	8002	495	653	MTLTSIDPVLTTFFNLECLP/VFT ATASSGLGEVE*AIALN
7948	38316	A	8003	1	1433	MPESNCSLTWRHVS GRAVAAQ GGEHSSQGASLVLGEPRGGSS WLLGLEGDTGLWGGLLKEGRL TDGKGKTIDCKDAIFIMTSNVA SDEIAQHALQLRQEALEMSRNR IAENLGDVQISDKITISKNFEN VIRPILKVRGLSWHFLLEPKAHF RRDEFLGRNGEIVYFLPFCHSEL IQLVNKELNFWAKRAKQRHNI TLLWDIREVADVLVDG\YNVH YGARSIKHEVER/RVVNIQ LAA AL*SRTLPPGGCTLRITVEDSD KQLLKSPPELSPQAEKRLPKLR LEIIDKDSKTRRLDIRAPLHPEK GRLTDGKGKTIDCKDAIFIMTS NVA SDEIAQHALQLRQEALEM SRNR IAENLGDVQISDKITISKN FKENVIRPILKVRGLSWHFLLEP KVLVTTFFNLSVLYLHGNSIQRL GEVNKLA VLPRLRSLTLHGPN MEEKGYRRARGHSLHQIEK YICESDDIFRKYCNNOFL
7949	38317	A	8004	1	789	

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7950	38318	A	8005	1	409	LRLELSFCSSCLLEPPWS/TTVV CLYCRPATDTHPSGSGRVS AVLIQ*G/RPLPLRLKACHCSHTA KCPGSSPSSMSPTAEEQKSGTA EERREGASEHGEFEFGWGRLE RS AVEWPNSRGSSSHSIPFPAPRP
7951	38319	A	8006	1	1787	MSKGESRKCNEENVSKSSKVV KVFI VLT PQFLSRDKDQLTKEL QKHVKS VTVSCKSPRKLLSHIT RLHPPSKGQGENLTHLVDSIKA TTWCQPPVWETVEGQRRRVGNC IDFTNGCDLVGSSSLHNMLVCS SYDINRQDTFQKDRTSEKHLID SVFTALQDSAGQWPAPRLHPQ RGEEVADPRGAPSRHIVEPENSS PCQGNGEQAGKAGARALCGQ ARRSPATMPPPLTTRSLCEFAVF LLHWLFPELFHYRKLGEQDSCY GDGGKQELDPQRLQIICNFTEV YFPHMQEEEA WRQAGGPAAEA AD/TSATSRSTSPTRRRRPGC SGAPASTTSFRAWGW TQA AK ASPPRDNCYNSSSLPDDISLFTH DNLHKQHSCSDSLGKKQLDPS CIKLIRH*VHLLYLCTKNNRVW TLEFMGNLHWNRRGAPTSSS ARSTCWPRV*RHEELCNQS*EV QRGV*GSPAAPERSSKDFCKIPL DEVVVPH*/DFPVRSPYLLSDKE VKIVQQSLSVGNFAAGLL/LPP RTSSCSTTIFGL/DNKKQLDPTQ LRLICH*VEAVYPVEKVEEVWH CECIPSNDEQCHCPNKKCNIL

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7952	38320	A	8007	1	1475	MAVDFSLAVLMIVSSYDINRQD TFQKDRTEKHLLDSVFTALQD SAGQQWPARLHPQRGEEVADP RGAPSRHVEPENSSPCQGNGEQ AGKAGARALCGQARRSPAATMP PPLTTRSLCEFAVLLHWWLPEL FHYRKLGEQDSCYGDGGKQEL DPQRLQIICNFTVEVYFPHMQEEE AWRQAGPGPAEAA/TSATSRR STSPTRRRRPPGLQRCACQIND KLQGLGLDAGSEGEPPTRQLLQ LLQPAR*HLSNQGQG*LQGRAL FTHDNLHKQHSCSDSLGKKQL DPSCIKLIRH*VHLLYLCTKNNR VWTLFEMGNLIHWNRRGAPT SSSARSTCWPRV*RHEELCNQS *EVQRGV*GSPAAPERSSKDFC KIPLDEVVVP/DFPVRSPYLL SDKEVKIVQQLSVGNFAAGL L/LPRTSSCSTTIFGL/DNKKQL DPTQLRLICH*VEAVYPVEKVE EVWHCECPSNDEQCHCPNRKK CNILKAKKVEK
7953	38321	A	8008	1	3524	MCNNLIHLSLANNKITTINGLN KLPIKILCLSNQIEMITGLEDL KALQNLDLSHNQISSLQGLNH DLLEVINLEDNKIAELREIEYIK NLPILRVLNLENPIQEKSEYWF FVIFMLRLTELQKKIKVEEK VSAVNKYDPPPEVVAQDHLT HVVNSVMQQRIFDRYLLLEIQ PEFRLVLKLVGNESLPIASADSL ALTSDMVRNGLDGLFYDFRAC HTRTPYFGEGRVDYHFISQD VFDEMVMNGKF
7954	38322	A	8009	258	719	MTPPSVLP*PSLSY*HPDYSLPF PFSPPVLCFPHVPQGLYSVLVFN TAAEPREKSAMAILPLSGHACS HVCLGSHQSLFQRACGRCPRL SGSLRSHCHWLLILGVKKCSPP EAGKAILTTDRTETMNISWKP RNPSHTVPHPHHICCHWRI
7955	38323	B	8010	1	1953	
7956	38324	A	8011	32	533	GRERPLLSPYMETLYRVPFLVL ECPNLKLLKPPWLHMPSAMTV YALVVVSFLITGGIYDVIVPEP PSVGSMTDEHGHQRPVAFGL QSKMDNNINGKGLCIQAS*FTM GGFRFS*ILDPIECTKYPKTSIDS FFCSIGISSVVLLEFPFWARSNS MRNNGCPGLI

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7957	38325	A	8012	670	1052	TRDRSRCKGTWLLSVKTLAISA VKSQSKASECRFTNRSSSTAVI RVLLPGILLSKLRCSMVLATA LERDDSDVGVTISSINPQDSHFS CLLLLRISNSC*IC/CNFAIRV HLAEVCI*QTSLLL
7958	38326	C	8013	40	186	
7959	38327	A	8014	1	1216	
7960	38328	B	8015	1	1032	
7961	38329	B	8016	1	1761	
7962	38330	A	8017	108	708	LTNQKKSRTRRIHSRILPEVQGG AAADRHCPIDRLGSLQDHRRS RLLSQWSP*KSTHD*HGFSYQS AEDIRRLQQAFAAGMNTSEL LQIANQAFVNRDAVSRKENHR DNERQAQRNTDLLAAAIRGVPP KRQGGGPGKETQPGCQSLQR NQCAYPEIGHWKNKCPQLKR KPGDSEAEAPDKDEGALLNLA EGLLD
7963	38331	A	8018	1	512	LSRSSPLLPLVWHQAMVGSMD VEPAAWVLMTFCWDTPRQSGV PRERMPHTGTWRTVGIRCPKK KLRSANSSMMRGKVQPFPR/DI QAYGAAPFEDLQVDFREMPKC GGNKYVLVLGRITYSGWVEAYP TRTEKTREVTPLRLDLIRFRFP PLWIGSDNGPAFLAALVQKTA
7964	38332	A	8019	3	764	KQVLVNGDAVSREEKRKENER QARRNADLLVSCSNQSGPPKEA REELWTKDYRPGQDLRLLSQA TLTFHPTVPSPTLLGLLPAEDS WFTCLDLKDAFFPIRSAPESQK LFAFQWEDPESALAKTVRQRC VSCRQHHAGKVQPFPR/DIAY GAAAFEDLQVDFTEMEPCGGN KYLPLVLRITYSGWVETYPTRA EKAREVTRVLLRDLIPRLPFR IGSDNGPAFVADLLQKTATVLG ITRKLHAASRPQSSGK

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7965	38333	A	8020	19	1548	CIYGAQLCTGPSAPVWYICPLGT MAPTGLPGHPAVATATEPHRE RGSPL/IDSTVLVPPQDKHILRPP TVDKRGGEASGETPPLAARLRH KTGIQMPLREQQYTGIDEYGHV VERRVFGYQPF TSAHLNWK NTPSYTEKQALIDLLQTHIQTH NPTRADCHQLLMFLFNTDERR RVLQAATKWLEEHAPTDYKNP QEDVRTQLLGTYPQWDPNERQ DMQRLNRYREALLEGLKRGAQ KATNINKVSEVIQRKEESPAQF YERLCEAYRMYTPFPNSPENQ CMINMALVIQSTEDIRRLQKQ AGFARMNTSOLLEIANQVFN RDVSRKENQKENGWPPCLR ALAATALLVQEAANKLTLGQNL NIKASRAVVTLMTKGHHWLT DARLTKYQTLLENPRITTEVC NTLHPATLLPVSESPVEPDCVE VLDSVDSSRPDLRQAWASVD WELYVDGSSFFNPQGERGAGY AVVTLDTVVEARSLPQATSAQ KAELVAFIRALELSE
7966	38334	A	8021	1	895	MDGAGICYLHQTNAGTEIQTPH VLTYKRELNNENMWAHRGDN THWGPEGSTNSPASASGVADV SRVGSLLQWVLGLADFKNEAKE LRLYKQEKREKAKRWKETEKG FNGDYGVTMTPGKWRTYFEID WSKLEVGWPSSEGNLERSLVSK VWHKVTGKSGHSDQFPYIATW LQLVLDPQWLRGQAAAFLVA KGQINPRKDPPTPPGRGKSTPEVL FDPTSEDP/QEME/PSDPSGALP LPGKDAPHSAHSPCASTRQTY P*ATRSRQERR*SLERNPYIGSS FKTQNWDTNAPERAVVYWDR

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7967	38335	A	8022	1	1959	MLKNFKGFNGDYGVTMTPG KLRLTCEIDWPTLEVGWPSEGS LDRSLVSKVWHKVTGKSGHSD QFPYIDTWLPQWVRGQAAAVL VAKGQIVKEGSRSTHRGKSTPE VLFDPTSDPLQEMAKVIPVVP SPYQGERLPTEFSTVLVPPQDK HIPRPPRVDRKGGEASGETPPL AARLRPKTGQIMPLREQRYTGI DEDGHMAERRVFCQPFTSAD LLNWNKNTPSCTEKPQALIDLL QTHQTHNPTWADCHQLLMFLF NTDERRRVLQAATKWLGHEHAP ADYQNPQEYGGKESPAQFYER LCEAYHMYTPFDPDSPENQRM NMALVSQSAEDIRRLKQKQAG FAGMNTSQQLEIANQVFVNRD AVSHTGAEHSVVTGPVAPLSK KTIDHIGAMGVSAAQAFCLPRT CTPGTKDYRLVQDLRLVNQAT VTLHPTVPNPVILLGLPAEDS WFTCLDLKDAFFSIRLAPERQK LFAFQWEDPESGVTTQYTWTV LPQGFKNSTPFGEALARDLQK FPTRODLCVLLQYVDDLLLGHP TAVGCAKRTDALLRHLEDCGY KVSKKKVAQICQQQVRYLGFIT RQAERTLGSGRKQVICNLPEPK TRRQVREFLGAAGFCRLWIPNF AVLAKPLYEVTK*GDREPFWE
7968	38336	A	8023	2	367	
7969	38337	A	8024	3	687	GRRQRRSKVTSTWWQARESS CRGTLLYKTIKSCDYSLSQEQ HGPNLHLIGVPESDQNGTKL ENTLQDIIQENFPNLARQANIQI QEIQRMPPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKGRVT HKGKPIRLPADLLVETLQARRE WGPINFILKEKNFQPRISYPAKL SFISEGEIKYFTDKQMLRDFVTT RPALQELLKEALNMERNWYQ PLQNHAKL
7970	38338	A	8025	1	993	

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7971	38339	A	8026	1	842	MAEQEQLQSAVPSPLLVIPRQK GSQVDFQSQPTDLQLRDLTDOR KTNKQKGIASLTLTRSTPKPH LYVTNIKDQRPNRLIGVPESD GEKGTLENTLQDIIQENFNL ARQANIQIREIQRTQRYSSRRA TPRHLIVRFTKVEMKKEILRA AAREKGRVTHKGKPIRLTTADL SAETSTSQKTEWGPFIENILKEK NFQPRISVPAK\LSFFISEGEIK\ YFTDKQMLRDFCHHQTCLP*K TRPALKELLERKHLNMEKGN WYQPLQ\NHAQICKDH
7972	38340	C	8027	320	433	
7973	38341	A	8028	9	189	
7974	38342	A	8029	26	738	VAASSFDTCADHLCALHLLQV LHYLAIQKPADLARHLLPCVIH AAVLKVKEEESLENISSVKKI QIISHSSKVLHFPNPEDKKLEEII HQITNVEALIAARSLKAKFGT EKCEQEEEEKEDLERFVSCLEQ PEVLVTGAGRGHAGRIIHLFV NAQNVA\AMTPPEELKRMGS PEER\RQNSVSDFP\PPAGREFIL RTTVPRPAPYSKALPQRMYSVL TKEDFRLAVKIIDGDV
7975	38343	A	8030	3	2961	MAADSEPESEVFEITDFTTASE WERFISKVEEVLNDWKLIGNSL GKPLEKGIFTSGTWEEKSDEISF ADFKFSVTHHYLVQESTDKEG KDELLEDVVPQSMQDLLGMNN DFPPRAHCLVRWYGLREFVIA PAAHSDA VLSESKCNLLSSVSI ALGNTGCQVPLFVQIHHKWR MYVGECQGPVVRTDFEMVHLR KVPNQYTHLSGLLDIFKSKIGCP LTPLPPVSIARFTYVLQDWQQ YFWPQQPPDIALV

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7976	38344	A	8031	1	1688	MREKPCQSNCEGKAFNYSSLLR RHHIHTSREREYKCDVCGKIFN QKQYIVYHHRCHTGEKTYKCN ECGKFTQMSSLVCHRRLLHTGE KPYKCNCEGKFTSEKSSLRCHR RLHTGEKPYKCNCEGKFTGRN SALVIHKAHTGEKPYKCNCEG KTFQKSSLQCHHILHTGEKPY KCEECDNVYIRRSILHRHRKI TGEQSYKCKVCDKVFSDSYL AEHQRVHTGEKPYKCNCKGRS FSRKSSLQYHHTLHTGEKPYTC NECGKVFSTRRENLARHHRLLHA GEKPYKCECDKVFSRRSHLER HRRHHTGEKPYKCKVCDKAFRS DSCLANHTESSILGEKPYKCYK CCGGFLIQKSSLQHQRVHTGE KPYECNECGKVFNQKASLAKH QRVHTAKPYKCNDCGKPLPD QSTLFHHQSNPIGVGKRYQCN DCHKVFSNATTIANHYRIHIE/ KIYKCNCKGFFRRHS*LVVHQ *THTGEKPYKYHDCDKVFSQA SSYAKHRIHTGEKPHKCDDCG KAFTSCSHLRHQRIHTGQMPY KCKGGKVFTLWSFHAHQKIH
7977	38345	A	8032	25	1091	IHIYSDSCSLSLQDSGDEKEFNL DDNVSFRAFLWDLAAGPGQGG GGGREKWRVVISRTMNRKMG KMMVKALSEEMVRPADIGDGV SRGPGDRSGRM*AEKMALAFS EQEEHELPLVLSRQASTGE*GMR GTPAESGGKDWVTA VL VAGPF CGRARVHTDFTSPYDHDLSKL QVRSASGLLWSLAGCAQKGSW TEPVGSFKFIYDVLPPEAVGH ARPSRRQSKGRPKPKTLHELL ERIGLEV*AWSSLVSSIREAQLP QGWGPGHNLNIMDPQHRAK LLTAAELLDDYDSEWL*ERPGE GAESSQEPGGEACPKVDIPRDS GCFEGSESGRDDAELAGTEEQ LQGLSLAGAP
7978	38346	A	8033	35	437	
7979	38347	A	8034	1	1845	
7980	38348	A	8035	1	212	
7981	38349	A	8036	371	915	
7982	38350	A	8037	1	2460	
7983	38351	B	8038	10	1510	

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7984	38352	A	8039	1	188	SASTTLWGLLFLIHLRLGTALRA VSSWGTHTLTAKEVQWGH/DCG THWSYHHLHQPRAAHGKEC
7985	38353	A	8040	3	2332	FFFMWDPQHFTFI/VLPQQYYN SPGLYSTVLRLDENLDIL*NIKF LYFIDNIMLTGMDE*EEDGTLE ALVKHLLSRGVKINKPYRDSEV ATAVK/FLQV*WLGASRG/VPS NVKDKLLHLC/PCKGREAHCL G*ALF*VS*HHNPTCKVVS GFDP HF*VT*EECPAFEWSL/QQERTL QQIPGHGAVTILQDPLVLKVPV GGVRFGVELNQAPVGESQWKG LGIWSKAMSSTAQKYAP/FQSR EICWKQLLACY/W*ALI/EIECLT MGHKTTM*FQ/MPLRN*HLCNS *SHTLDMPQQHPIMRWKSFL*/ D*A*IPMLTSPRKHPNLKWP*TT KQKH/WKL/GQSPSPWVSPGRVG WVHKWSKHSGRD/GGYLWVQ QY*LPPTKVDPTATSKCPTHQ HLNPMIFP/R*GSISLGDQPDPK* GVDYIALFPS*KGQRFMFTGIGT YSIVGFSCRVPVPSVSTTFWGLL IFVIHRLGTASPCSSSWGTHLT AKEVQWGH/DCGTHWSYHHL HQPRAPGP*RMLKRASIGTAQR QLAGST/LCGWEGAIQDMVHF KNQRHLYSSVISVGRTRGSRYQ GVEVDVAPYPIPSHTLSWDFAL LSQNHHSAG*KVLDSKGGYP*K ETNECPLNYTLQLP/PGE/FGQY VSRDQVRVRGVPSSPGTVIDPD PQEEAWLLSHN/GG*EEFVWNP /GDPLGGLLV/LPCPIVSVRRIQ
7986	38354	A	8041	1	1296	

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7987	38355	A	8042	498	2219	KSVKTS*DTLRTKAKTGQGHITGLQPLGLRIRQEP/SAKTEKAAAIQAKAGAEREATGVVVRPVAKTRAKAKAKTGSKTDAVAEMKAVSKNKNVVAETKEGALSEPKTLLGKAMGDFTPKAGNESTSTCKNEAGTDWFWWAGEEATINSWFWNGEEAGNSFSTKNDKPEIGAQVCAEELEPAAGADCKPRSGAESEEEENVIGNWFWEGDDTSDFPNPKPVSRIVKPPQPVYEINEKNRPKDWSEVTIWPNAVTPAVLGFRRSQAPSEASP/LFVCSGLR*RKCLFFACGNSLPFF*E/PRSCSQPIPECRFDSDPICQITIDEIRRQIRIREVNGIKPFACPCCKMECYMDSEEFKLVSLKSTTDPLIHKIARIAMGVHNVHPFAQEFINEVGVVTLIESLLSFSPSEMRKKTIVTLNPPSGDERQRKIELHVKHMCKETMSFPLNSPGQSGSLKILGQLTTDFVHHYIVANYFSELFHLLSSGNCKTRNLVLKLLNMSENPTAARDMINMKALAAKLIFNQKEAKANLVSGVAIFINIKHEHIRKGSIVVVDHLSYNTLMAIFREVK
7988	38356	A	8043	1	453	MEKLDELKIKIDNINGALICARHFSKCSSNAQSHLCPYLQAFPGGPG/VRGLPGWPGRTGSRLELGHGWRGCG/EGLVSGCQ/TMLSGA/PAGSPQ/PTGGTRAHAVRGRP*VPARSQGSRPLARPQGED*GAAP/DFDPGAAGVPGVPALQEAQI
7989	38357	A	8044	3	690	LSLSPSSWDYRRAPPRPANFVFLVETGTMTLTIVLIS*PHHPPASASQNAQIV/GVSHSPRPGIACILTRLDL/HQGTQSRVPALGSS*PIPHARPRGHTLKALPYRLYTQTARGFGQPRVRIPLLSLLGSLKPSELRGQVGHAFASAFASISLVCFTLLVEGKLPKPGASVRCLQSNRDLGFRATFTPSHRGHGALGLNYISQRATGTPNLWLPFRFRVVLQQAACG
7990	38358	A	8045	106	299	
7991	38359	A	8046	306	445	
7992	38360	C	8047	570	926	

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7993	38361	A	8048	47	988	ASRPGSRVSLMFGAAGRPDRS SSSPGTSWPFVPEMEELVHDL VSALERELQSKPRGGFAEPGDP FSEVY/PCPLKRPARKRRGRKR RFV*CASPVGGLVTA*SEGSDS SFRRTKSKKRKLKIRQGPQIQD EGVVLESEETNQTNKDKMECE EQKVSDLMSESDSSLSSTDA GLFTNDEGRQGDDEQSDWFYE KESGGACGITGVVPWWEKEDP TELDKNVPDPVFESILTGSPFLM SHPSRRGFPTKTQSAFMECLQRI LKNLEGLQLQWYFFLAQWVTR EWFIFRILITMTIGLALGLGQS MTSISF
7994	38362	A	8049	3	476	LTRPV D* RPTIHLGRGV RAR P ANRRRQRARRGA AISPPGCSV AGFLRGR LG/PEPGDNGQHLGE PWLGCGLFA*RA*CSRSTRCT* RRRAPGDRELPRAPATWAPPIK LVPRVFSSKVGQGVSLVEAM CLQGDSILNQSNKHNSVASSNT ITVIG
7995	38363	A	8050	2	143	
7996	38364	A	8051	1	161	
7997	38365	A	8052	3	1189	ESPLLGHSSSDAARRRSVSSFP VPQDNVDAHPGSGKEVRVPAT ALCVFDAHDGEVNAVQFSPGS RLLATGGMDRRVKLWEVFG EK CEFKGSLSGSNAGITSIEFDSAG SYLLAASNDFASRIWTVDDYRL RHTLTGHSKGVL SAKFLLDNA RIVSGSHDR TLKWLDRSKVCI KTVFAGSSCNDIVCTEQCVMSG HFDKKIRFWDIRSESIVREMELL GKITALDLNPERTELLSCSRDDL LKVIDLRTNAIKQTF SAGPKFC GSDWTRVVFSPDGSYVAAGSC *RALLYIWDVLTGKVEKVL SK A\HSSHQCGWPWSPSWARTF VSVDKGCKAVLWGTVLTGLSG LGGPQC PPH EAHGLLPWSW QVNVLGYSMDLPELKKANVGH

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7998	38366	A	8053	116	921	LKSNRCW*GCEEKGLTIHCW WEC/KFNPLLKAI*RFLLKELKVE LPLDPAIPSLGLSIGTGKKVW QRLPNCPTISLFSFFHKNNRHTGT YRRRFLDSLAVRCPCNPATFGS KSDVCNFWVMPSTGKKCALPS HPLFPNGLNADVVCLSDSENLS QKILLILEVSDSVILGKLSHKNI QHDCIEEPLTLLRNTQQFRFLCI ACHGCTSQYSTFLVKASWTRS QGILQRPQSGAGSYPEKLFSEG AGDEGVDLLPLLAKPASPDQL
7999	38367	A	8054	35	422	SCSEVTEASWGSVPFLRDAQLG VGLHSPTYRHPHRETLTCCPAG TLQAWPFCGRIRVRVPVSWLGE PGRGLIPGSGSAASSECLPGLHG RAPLGTSCRPGRPLP/WNQPPPR LAQPGHRDPDADAATERPGLQ RPSRTACERFPMGVSVRRRVEA HSQLGVPELRD
8000	38368	A	8055	3	277	GPPRPPA*RGHGGRPENT/PAPP RWPPPP/PRSPAPLPPRRACADV THPPVPTPGKRTPPPIGGAPAA AAPRRPAPSCFSAPTPGCSLTG
8001	38369	A	8056	3	179	PPHPQGP PPPGRPPGC*RPI/QG RQVFSMKPGRTPERTAWS/PPY PGCLGSRPRRPSAPA*SGAHCV VAPYPGCLGSRPRRPSAPA
8002	38370	A	8057	3246	4682	ENTLSFASFFFFEMLSLCPGW SAAAPCQLTAASTYVVKRFSC LRLPSSWDYRRAPQHANSFCI FSRDRL/TMLVRLVSNS*PQVI RLPQPPKVLGL*ACCGFCGSS GMAPGCGRVVSHAGAPGGGTR PP
8003	38371	A	8058	3	718	LTRLVLSPDAPD/RATHLIAA/R AGTEKVLQ/AQE/CGHFHVVP DWL.WSCLERWDKIEQLFPLR DDHTKAQRENSPTLPDREGIPP TALSHMPILPKAQPSPEVRIYD SNTGKLIRTGARGPPAPSSSLPI RQEPSSF/RVDDILGEGSDSDS EKRRPEEQEEEPQPRKPGTRRA RTLGA PASSERSAAG/SRG/PRG HKRKLNEEDAASSESSRESGNEY EGSSSEADEMAKALELNDL
8004	38372	A	8059	273	468	NVGKTAANGD*G*RGEAAPAG RSRARVPEDAASSESSRESSNED EGSSSEADEMAKALELNDL M

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8005	38373	A	8060	1	2886	MEVPAAGRVPAGAPTA AAVE VRCPGPAPLRLLEWRVAAGAA VRIGSVLA VFEEAASQASAGAS QSRVASGGCVRPARPERRLRSE RAGVVRELCAQPGQVVAPGAV LVRLEGSHPVVMKGLCAECG QDLTQLQSKNGKQQVPLSTAT VSMVHSVPELMVSSEAEQLG REDQORLHHRNRKLVLMVDLDQ TLIHTEQHCCQMSNKGFHFQ LGRGEPMLHTRLRPHCKDFLEK IAKLYELHVFTFGSRLYAHT
8006	38374	A	8061	2	680	
8007	38375	A	8062	658	1657	PGILSLRNALLTGVDCKVVVPV PPGHTHPQLRLFHFHPKTCSGW GEWGDHGVVWAGPAPA/YHL HRDVPQALWTNDHALAWP*AM TSERTLWPGHELSARPGRSWRI SCPTGLPQGGDDRTRGHWVTA TCCSADGLRLCRYGD/GVRRGL PTVAWP*LTGCSLRYGSGQQC CYTADGTQLLTADSSGGSTPDR GHDWGAFFRTPPRVPSMSHW LYDVL SFYYCCLWAAPDPGKD RAGLGCTPT*PSTLTASAFGDP HFVTFDGTNFTFNGRGEYVGM G*NQGGRLPSGSRSAPTTAGT ETRTGTLTAVAVQEGNSDVVE VRLANRTGPER
8008	38376	A	8063	873	1791	RCAGCPHSSSFERRGQ*AAVGP CCHGGTYRKASSV*RVSV*HPP HDRGSRK/QSLSGR*STGLS*MP SGVASSASV*FVNVSLSN*L AQSTARFPGPSVRGLGQGRAG GG*APGHGADHPTGRQHS*GSP APVTWLWWPPRHQAALAPAP STTPYDNSPLHCRPSGPSQSSHP HSALPGT/VPGSSPLEIVPGSSL YVS*SLIRALAAPISSSSVGKNC RCTERLAIKPAESCRTRSSSAG QSVFSRFTSL*AFTG*AR*PSAS AADLLVKASILLAQLLILESAS STRMYSFRDCTSSFSA

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8009	38377	A	8064	2	935	YSPARGSGRGLSRRPGAGRRA GQGPQVVGAPKPGGA EYVVRWA AGGMKGAGGSSGSGSGSRE AG*PGVPRGRRGWRTPAEPPG WGPGRRAQACGA*G/EGRAAAQ VGGAPAAAGGVAREEAPS*P GDAAGSGTPGAASVQVSAPP AQPINLSAGARAGVARRCVC RGAES*GPGDPGPGSRR*PPAA QSGPPPCPSALFLHPSGFLCRRP QPSRAQGGVEVGALRAVPRLSG GAGNLAAALPCQLPGSGGLTPGC /QASQGLGVGLVRAGPAWSPL DGPLDQKVFSPTQSLWNQRCFS LAAAGPVIIIR
8010	38378	A	8065	3	367	
8011	38379	A	8066	2	1246	TPAWSREILAEELCTPPDPGA VVECPDESFIQICENATFQRY QKGADAPVALVHHMSPASVL VDSRYQQWMERFGPDTHLVL NENCASVHNLRSKIQTLNLI HPDIFP/AAHQFPL*EGGPHQC AHGSG*MPQVPAPFQE/WSAR GMPLLLAILRNS*LRRCSFPTSS RALQEYRRSAQDGPAPAEKRS QYPEHFLGTGSAIPMKIR/NVSA TLVK/QSPDTSLLLDCGEGTFGQ LCRHYGDQVDRVLGTAAVVFV SHLHADHHTGLPSILLQRE ASLGKPLHPLVVAPNQLKAW LQQYHNQCQEVLLHHISMIPAKL PSGRWLRSPLQWKD*FSSLLR TWIWEFQTCLVRHCKHAFGC ALVHTSG/LKVVS GDTMPCEA LVRMGKDATRKADELISFQG
8012	38380	A	8067	121	880	GAAASQLPAPQPVPGGPAPH QYDSCQMPSGRG*DLQSCSGKI DQFA/AWTTCDLEEFQTCLVRH CKHAFGCALVHTSGWKVVYS DTMPCEALLVRMGKDATTLLI ATL/EDGFRKREA/LEKTHSTTS QGHSAWGMRMNAEFHY/VLN HFQARRY/SKVPLFSPNFSEKVG VAFDHMKVCFGDFPTMPKLI LPP LKA LFA GDIEEM/EERREKRELR AGAGRPSCSRGAGRRPLEDGE P QQKRAHTEEPQAKKVRAQ

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8013	38381	A	8068	1	607	SPGSWETRLVWVSFYRSCCKHS LCPCLVGEFLVFNSPMQSGSAG EPPRLQF/GAPLPGAAPGNYRRT GRGREGPWPPPLAPSLFAFSDL GSSPGRTSWRPPAVSRRLGPTFP PPAPGRGRPRRAA*TGPSAQ/PP RSLSTLSPAPAAPAVRTAPPVAS PRAAPAPLRAITLLATKSEELPV VSFFSSRLVLAKRPKRLAQMH WGH
8014	38382	A	8069	1	290	QFLDAESGSAGEPPR/LAVPAPF PGGAPGNYGRTRGRGREERSWP PPLAPSLFALSDFGSSPGRTSRR PLAVSRRLGPTFPPPLPPAPGR GRPRAP
8015	38383	A	8070	1	565	SPGSWETRLVWVSFYRSCCKHS LCPCLVGEFLVFNSPMQSGSAG EPPRLQF/GAPLPGAAPGNYRRT GRGREGPWPPPLAPSLFAFSDL GSSPGRTSWRPPAVSRRLGPTFP PPAPGRGRPRRAA*TGPSAQ/PP RSLSTLSPAPAAPAVRTAPPVAS PRAAPAPLRAITLLATKSEELPV VSFFSSRLVLA
8016	38384	B	8071	475	913	
8017	38385	A	8072	145	275	
8018	38386	A	8073	1	310	VEELTARTGGGAPPGCQADAK RMPQFPQRTPWGHGFAGAPFP ISKPHGPPAGQL*PG/PSCEQT/E PPSPVNVTVTHLRANSATVSW DVPEGNIVIGYSISQVQV
8019	38387	A	8074	1	483	GSHRVGRWAALCDRAAPRGLT NRETGGGAPPGCQADAKRMPQ FPSQRTPRGHGFAGAPFPISKPH GPPAGQL*PG/PSCEQT/EPPSPV NVTVTHLRANSATVSWDVP NIVIGYSISQQRQNGPGQRVIRE VNTTTRACALWGLAEDSDYTV QVRSIGRL

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8020	38388	A	8075	2	854	RPPAARARRWLPKPSARRRR PAHRCRRRRRTCTPQATRPGMR *APAAACGPTGRRS/RLPALKI. ALEYIVPCMNKHGICVDDFLG KETGQQIGDEVRAIHDTGKFT DQQLVSQKSDSSKDIRGDKITW IEGKEPGCETIGLLMSSMDLIR HCNGLGSKYKINGRTKAMVAC YPNGTGYVRHVDNPNPDGRC VTCIYYLNKDWDKAVSGGILRI FPEGKAQADIEPKFDRLLFFW SDRRNPHEVQPAYATRYAITV WYFDADERARAKVKY/RNR*K RCEG
8021	38389	B	8076	1	205	
8022	38390	B	8077	1	806	
8023	38391	A	8078	1	2279	MKVGLDQIIEVVPVSHSVTSAGAA AGECGGVHCDSVCAEGRWGP CSLPCYCKNGASCSPDDGICEC APGFRGTTQRICSPGFYGHRC SQTCPQCVHSSGPCHHITGLCD CLPGFTGALCNEAYSQ/SCPSGR FGKNACIGICTCTNNGTCNPDR SCQCPGWIGSDCQPHCADKC VHGRCIAPNTQCCEPGWGGTN CSSVKKQSTVCFES*KCEPWEER PCGGLHWDIAG*/P/GKHGGYL NELGAFGLDRSYMGSLSKDLG KNSEYNSSNCSLSSSENPYATIK /GPTCTYPEKLRVWLCGDEIAG TKRFPICRDQ*LNFSQQECL*S* TYSECCPRSIQQ*WASFPQSI*PP KNSHIPCHYDLI.PVRDSSSSLK QEDSGGSSNSSSSSE*/APKDR LGLLV**RS*SM*TNRLAKHPK QPGRKGPKI**HGTWKSSQEK/ HAEQSGKLAATLCQKDWLIQ REGWPYILSRMFL/CFISTDGRE SESLWRKSNKSKFK*WGRPG KCGL*EGQREEVWGLGNSLYC LAGQL*CLDCECHH/GFQECPP VLGHSWGYKS/CLNRNPLKGLS SRCAGLAVRDSLAPNSQGWKA TFDFPSLECPSTGYGYGCRQICD CLNNSTCDHITGTCYCSPGWKG ARCDQA/GCYHSWKSEQLKPN QYCSPC*FLPDRGHCRHHHSCP SCSLPTGIVHYL*TAEGKGKIKH
8024	38392	B	8079	1	2909	

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8025	38393	A	8080	332	602	NSLSNRWLKGLPGAPGIQEIKE MWRCMSSICQKEGWRTAGS LGHHRSLLHVQG/AGNDVDRT GSLPASVR/QHAYYTASSVEGR VSYKLYT
8026	38394	A	8081	2	422	FNISLGFACPLRIDFFGWFFVF LSWSFTLFAQAGVLWCDLGLS QPPPLGFKKFSCLSLPSSLDYRC LPRLTNF*FLVEMGFHHVGO AGLELLTSGDPPASASQSAGITG MSHRAQSAALSFK*SGISKNRY FIFWA
8027	38395	A	8082	1	951	
8028	38396	A	8083	1	924	
8029	38397	C	8084	271	738	
8030	38398	A	8085	1	575	
8031	38399	A	8086	2	332	
8032	38400	A	8087	1	897	
8033	38401	C	8088	181	804	
8034	38402	A	8089	1	1923	
8035	38403	A	8090	294	2340	EKCRHNCSRVWQSLVSQSVW ATEGQYGRKTNARPVQVKIDS ASFPYQRRYPLRLAEAQGLQKI VKDLKAQGLVKPFNSPCNTPIL GVQKPNQGWKLVDLRINEAI VPLYPAPNPYTLSSQIEEAE WFTVLDLKDAFFCIPVHRESQF LFAFEDPSNPTSQTLTWVLPQG FRNSPHLFGQALAQDLSQFSYL NTLVRLYRDDLLAAHILETLCH QATQKKTGIALGVLTQVQGTSE QPVAHLSKEIDVVAKGWPHCL WVVAAVAVLVSEAVKIIQGRE LTVWTSHDVSGTLTAKGDLWL SDNLLNQALLFKRPVLRHLTC ATLNPATFLPNNKEKIEHNHQ VIVQTYTIQGDLLVPLTDPDL NLYTNGSSFVEKGLRKAGIHPS RQWTPLPKAGPEMLSKRQVL ESGILKAFVLPYLLVAVLGSIDF NGKPPVAVFSLSQAHFLCAT WLLLYGEVWIHSHTAIKTYQ RRRSQDGRIGTAPVYSSQRRR RRRVISAFPSEGIPDLQLRLVS VRRKTNKQKGHPHQPICTSPS SRPKVDKTTKMGKKQNRKTGN SKTQASAPPPKERRSSSPATEQSW MENDFDELREEGFRSSNYSEL EDIQTKGKEVENFEKNLEECITR ITNTEKCLKELMELKTKARELR EECRSLRSQCDQLEERVSAEMD

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8036	38404	A	8091	158	865	NPAARTPFVVIKKGGKRGEGL AKAGAIHILNIG/GTPVCCPLE EGINLEDWATEGQYGRKNAR PVQVKLKDSASFPHQRQYPLRP EAQQGLQKIKDLKAQGLVKAC NSPYNNPTLGQKPSGQWRLV QDLRIINEVTVPLYLAVPNPYIL LSQIPEEA EWFTDLDLKDAFFCI PVHPDSQFLFAFEDPSNPMSQL TWTVSPQGFRDSPHLFGQALA QDLSRFSYLGTLVLWYVD
8037	38405	A	8092	1	748	MNQSDQEMTGAFVHMKSYTG LISGVAVKMERHIYQDRRIAIEK EFNSCRTGCMGDSWFTITQIRL LENTGIRVFKDNLVEAEWFTV LDLMDAFFCIPVHPDSQFLFAFE DPSNPASQLTWTVLPQRFKNSP HLFGQALAQDLSQFSYLDTLVL RYMDDLLLAAYSETLCHQATE ALLNFLATCGYKVSQPKAQLCS QQVKYLGLKLSKGTDRDLTTFPL VNEEKIE/P*LSTSNCSKLRCRSG TSRGS LG
8038	38406	A	8093	194	1377	NPAAQTPFFVVKGGKRGAGL LHRQYPLRL EAKQGLKKIVKDL KAQGLVTPCSPCNTPTLAVQK PNGQWRLVQDLRIINEAVVPLY PAVPNPYILLSQIPEEA EWFTVL DLKDAFFCIPVHPDSQFLFAFED PSNPMSQLTWTVLPQGFRDSLH LFGQALAQDLSQFSYLDTLVLQ YMDDLLLVTHSETLCHQATQV LLNFLATCGYKVSQKLAQICSQ QVKYLGLKLSKGTALSEERIQ PILAYPHPKTRKQLRGLLGITGF CQIWIPRYSEIARPLHTLIKKTQ KANTHLVVRWTPAEAAAFQVLK KALTQAPVLSLPTGQDFSLYVT EKTGIALGVLTQHYGEERNS*L PTEYLSNIRKPLGDYYWLYRNL KRWQSYTARVIRKERKGGK
8039	38407	A	8094	3	521	

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8040	38408	A	8095	1	3203	DSPLSTKAMLGMLVKDHWSPA AQTPFFVIKEGGKRGAGLHGGQ LILKDKFITQSAADIKELQKST LGPERNLKTLLNLATSVFYNRD QEEQAERDKRGKKKATTLVMA LGQADFGSGSTRKAWANRMP NRAYFQCGLQGHFKKDCPSRK PQVCLTIESQEVNCLLDAGAAF SVLLSCPGQLSSRSVTIRGLGQ PVTRYFQPLSCDWGALPFSHA FLIMPESLTPLLEREILVKAGAI HLNIGEGTPICRL
8041	38409	A	8096	13	183	VHLHPQGHVPVKHTPTGLGYS SCRHLLGRACY*KGEVGAKA GMQVSDALPRLGGVS
8042	38410	A	8097	1	2427	MSKFSCASLTATESDGTPLMEQ YVPCPVCEATAWAQHTDPEKS EDVQYFDMEDCVLTAIERDFIS CPRHPDLVPPLQELVPELFMTD FPARLFLNSKLEHSEDEGSVL GQGGSGTVIYRARYQGQPVAV KRFHIKKFKNFANVPADTMLR HLRATDAMKNFSEFRQESML HALQHPCIVALLIGSIHPLCFAL LAPLSSNLTVLSENARDSSFIPL GHMLTQKIAYQIASGLAYLHK KNIFCDLKSNDILVWSLDVKE HINIKLSDYGISRSQSFHEGALGV EGTPGYQAPFIRPRIVYDEKVD MFSYGMVLYELLSGQRPALGH HQLQIAKKLSKIRPVLGQPEE VQFRRIQALMMECWDTKPEK RPLALSVVYSQMK/APDFCHLV *TVLWEADSLLLIPGPGVHRGV LGWKRGVQELHGGNTEKGLM EVQRMCCPGMKVSCQLQVQRS LWTATEDQKIYIYTLKGMCLN TPQQALDTPAVVTCFLAVPVIK KNSYLVLAGLADGLVAVFPVV RGTPKDCSYLCSHTANRSKFSI ADEDARQNPYPVKAMEVVNSG SEVWYSNGPGLLVIDCASLEIC RRLEPYMAPSMVTSVCSSEGR GEEVVWCLDDKANSLVMYHS TTYQLCARYFCGVPSPLRDMFP VRPLDTEPPAASHTANPKVPEG DSIADVSIIMYSEELGTQLIHQE
8043	38411	A	8098	1	1641	

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8044	38412	A	8099	1	1075	VLHKFPYRMVLPALPKRMLGA DREFIEARRRALKRFFVNLVARH PLFSEDEVVLKLFSLFSGSDVQN KLKESAQCVCVGEFLNCKLATR AKDFLPADIQAQFAISRELIIRNI YNSFHKLNRRAERIAS/RAIDNA ADLLIFGKELSAIGSDITPLPSW AALNSITWGS/LKQALKGLSV E/FALLADKAAQGGKQ/EENDV /VEKLNLFLLQSYKDLCE/R GHEKGVF/HTKHQALAQSTA* LKRPD*LSATGAEPSPPEVRGS KLKSRIRGARENAQTMELRN YVFSLYCLHQETQLIHVYLPLTS /HILRAVFNVSQIQGHKEMSKVW NDLRPKLSCLFAGPHRTLTTPC SPPEDGLCPH
8045	38413	A	8100	1	974	MPQVPAP/PLPSITSGHPGEP/PA RPSCSCLFSPQPCNSITPSSLLLR QLAVAAAGCGGHGAPALSST GWQQVCKSPQVRSVPDNPTTA DSTASLWKFGVLRSHINGCY K*KQQPLLVPVHAQRRRAQVAP/ APPAGLSCGQHS/LPQPPRCSDLS LGLHPGR/LPCDRGHCPPLPPVT PTPDKAGPILDPAQSCPCPSIPA PPKQSPPARFPPEMKRKKTLM MPPSEGLSLASGMEASVFQRL LSRCTCLDQATVIWGFYCMQV QASQGIQPCRGKDELLRLAPLPV KEARRTKPRSPGKHAKAPPSSS ACSPHLCSSPILQALD
8046	38414	A	8101	1	460	SLQAPRRNSRAEHTRTLNSECP RRRRCCIKGCTYT*LDVAPPPP VLDWLVPKPRWLGNGWLL DGPPEVLQAEACSTTIDGAEP LCPSGYECHILSPG/DVAEGIPN RGQCQVKQRROADGRILRHKLY KEYPEGDSKNVAEPGKGQQRH
8047	38415	A	8102	3	219	NNHRLDRTLPRDYCHAATAYT THELAFGDFRLPTEGHQELCHN SHLIYFRDK*THCTWRSVDSL TGVTHR
8048	38416	A	8103	230	555	NVRPS*ALQAPWGRHHLCVTP MQLRMTLVVSSLGKGTGGLSL AQ/CAPVQEGTHGSGPPVEGWL AATRTCEGCRRENTMKNVGSR KYAFNSLQLKAFPKHYRPEDL RKS

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8049	38417	A	8104	23	304	KGFLYLFNKQTIEQTNNNGSKSFA KRNTTEGHDDLQLQGFQGSQTPTS FLSSSGRCYSWGAIGPQFGALS GfSPFPFHSAANRQSSALDFWIT TSISF
8050	38418	A	8105	99	375	VLEFGALSGSLISPLCTIPALVE PPCGPQPSSSSSSSSSSSSSSSSS SSSSSSSSSSSSSSSSSSSPQGVQ LPLGPRRLKMNTEPTTRP
8051	38419	C	8106	5	376	
8052	38420	A	8107	545	990	GLCHVLQPCDPCLPGMTQEAQ PPEVLKTAGKAGGQEPG*.*RIP *GSLCPPCPVAFGAAELPLPSS DPVSRGTGAPPQG*WLGFGYFS SNEGSPQAGG
8053	38421	B	8108	252	801	
8054	38422	A	8109	169	1226	PNGLRPPCPSPASETPGNAPVCD PGSSSQGAQKKLKPGGLPGL FPFFAQPSPEGLCPPCPVAFG AAAEPLPSSDPVVRTGAPPQQ GSW/PI*SPGSRSGTRADPVKGE VAGRERCLPIE*ASPPPPHSG* AGQVPVGAAPPRTAG*GV*TGTA PCPKAOPRK*QR*RCSS*VG* ESAEIVCPQGDAG*RGKSP*G/ SHRRNVPS/RYSNSHGPYDSNQ PHRKTITFEEDKVDSITLIGSSS HVEVEDAVHIIPENESDDEEEE EKGPVSPRSPRKR/PSATRAAA SRLRGS*TLGGLLGCIFAFFAPP SPTEGACAHQAQSLSGPLRSFRC HLRLCPARGLHQGRDDG
8055	38423	C	8110	58	504	
8056	38424	C	8111	203	1874	
8057	38425	A	8112	32	1026	KLLEQCLHSVSTWETPQYRRPP SPS*RGSRQPCFSPPRDTTPE NHWLSLPQRD*AGPPVR/PSAG GFMT/PPRGVPTVEVPPDPTC/S PNHTRPFRPPFSKNPCFRFEPL RAPTLVPGPLPPTHGRVPHLE RNLALGLGLKSEGLKRNPCVEP /PAPTPIREFPKITGTLPLR/PAADH ALLGMRDQSLSGQSPGPKSPDA DDQLQNRDHTETEQRISGRSS ALAPESQLQQGCAGIHFRGRFC KAPPLASGPA/RPPCLSLPPPWW APVRPKPPR*APPAP/PVPSPIN HPRAEECGRTARDWQAAPLAA LVDRDPLDEASWAPESGGDVEN LYV

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8058	38426	A	8113	3	909	TEGGASHRAHPVGPAPRG/KRH SGATEPANGTWARRRGPGRDS SNQSSGGGERSQLRHRGWRL SRPLLPPGAASPLAGEDPERNA G\GWRRGGAAPMRPKRGPMNGG GCGPGAGSGAGGEALGRGRGA VSGCRPAPPVRRPPPPPPPPGG WLRRTAGSGPEYV/GSRCARGS GQVSAGGGLCARAARGGKLAP RLRALRGRSPWPAPLGRSPAR APARVPAGRCGPGA*RGRCAL GGQGEAGPAGSEGAGRPLPGRP GCPGTSRLLPRRPVRKTDVGN RSSFFPRAPGRAPHACQPTQFLII
8059	38427	A	8114	1	454	
8060	38428	A	8115	2	172	MFIYTSAFI*QFTNSINIPi*TSFC *TASVHLSICIVAFCHPCQCSS SFIQCTTN
8061	38429	A	8116	1	594	LAPVFKLIPMPVS/YGIFLYMG WAALSSIQFTNRVKLLMPAK HQPDLLLLRHVPLTRVHLFTAI QLACLGLLWIHKSTPAAIIFPLM LLGLVGVRKALERVFSQELLG LDELMPEERSIPEKGLEPEHSF SGSDSESELMYQKAPENISV N*Le*ESGSGDPRKQHEVLTQE VRTFLAFLGTSRCSVGLGKD
8062	38430	B	8117	1	3402	
8063	38431	B	8118	1	4614	
8064	38432	A	8119	3	435	DHAKLGTRTSGMRPHSLSLCFF SSSYDILMRITKDRVKNLTCITY TILPTDLQPGCGLPRSFYPPSSKP TSFWLWACKLFPPLPISFNPSPA HSKTAHGHSKGKHTEAGM*WS* TGEGITGRCCFVSIKAPLPSSG PVGGPVGG
8065	38433	A	8120	1	525	MALLPTVLCLWAQAQFLVDLG QNSKHHQEHQLAPDVAFKMK GACVCAAGFRGWRCCELCAFG THGKGQQLPCQCRHGASCDPR AGECLCAPGYTGVYCEELCPPG SHGAHCELRCPCQNGGTCHHIT GECACPPGW/IG/TV*GPPSPGSL LGCLPRETSLIISLQLCLYLLL

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8066	38434	A	8121	1	1050	MLIMTFHGLLPCMQMACKWQ LRVLVAGIRCDSTCPPGRWGP NSVSCSENGGSCSPKDGSC EAPGFRGPLCQRTVHILYPRGCGI RDVGESGNRKQKAVEQYREH WTVSPEVQCSASHFSSVRPKSA CPPGFWGPACFHACSCHNGAS CSAEDGACHCTPGWTGLFCTQ RCAPGTFGYGCCQKCECMNNS TCDHVTGTCTCYCSPGFKGIRCDQ GIMLL/CPHCGAAGPICLASAA AEREGRPGSPCLLHTCHEDDQ HRLPLSGANSIPTYR*SGRPDS PLRTEALILPQCKQKFGSGQGEV CAVSCAAGTYGPNCSICSCNN GGTCSPVDGSCCTCKEGRILCLQ
8067	38435	A	8122	3	732	IRCDSTCPPGRWGPNCNSVSCSC ENGGSCSPEDGSCCAPGFRGP LCQRICPPGFYGHCCAQCPCLC VHSSRPCHHIGICECLPGFSGAF CNQGIQAPTGNPSPGWYRS*EM TDPRCSCR/CLSGESTRHTSPVL LGTDASETQVIGFVNLAQFLIIC PRKLHYKAQNSKKSNGSDASS DWKDWGIWDRESCCELCPPGS HGAHCELRCPQNGGTCHHIT GECACPPGWTVGA/HC*ALCCP
8068	38436	A	8123	77	864	PAVPEL*VFQAKPERKSRYWQL HFPFHSSSPTS WRKSLEPMYRC TCPPLTPYGCTCPPLSPYRRTCP PLTMYRRICPPLTPYRCTCPPLT PYRMFSSPLHKEITSAQRSPEPS SRPHSSKAAALR*QPRIMEKQRI YGPSPTSVQPASPPCLDDPRKK AERPDHRATGKRHLPETSL/YA ELVRRAPENPEDSEAPAPAPAA LSPASEHRTDPIQETKKARKSSD NDGSTPLAQTPTRRSSQWPRLG QFQQQEDDSSGLYSTG

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8069	38437	A	8124	314	1188	KHFLNFCPLPYMILNKYRNQYCT FNDDIQGNKIFTAYGSITCLKI.V HNCIKKIWL.VDSKGLIVKVRIC HF*PE*R*LCHSGWPSNLEAIVQ EIKPTALIGKHFLLSLLPYPLF*P DCFFNERPIIFALSNPSTSKAEC AEQCYKITKVK*NYNRYFNNOI FIHYREATLYPGQGNNNSYVFP VALGVVACGLRQITDNIFLTTA EVL*NPLSLPRV*NTKCAQPRN TIRDVSLKIAEKVKPLLKLIHYF SFLFLNNMQEAFVRSQMYSTD YDQILPD\CYSWPEEVEQIQPQ
8070	38438	A	8125	1	1115	SPAQVMFQCLWKSCKVSLSTA SAMQRHRLVHLGRQAEPEQSD GEEDFYYTELDVGVDTLTDGLS SLTPVVSPTAS\IAACLPPPGAAR AAGAPSPA*SPAACPAAPAP CPEHRC*PPVLSQ*PCLPRAA*R PPAWSRMPRRLEPAHPPCPGS ESS*GSPAATRISAGM*YGMEA PGPPGAQPAAGRKPIPAVPLGL SGSFKNIKLPPSPPPPGPGAET ARRNKPGGAGSPAAAGSAFNW VGVPDLTLEPPPPPGPEGSPPT QS/SPLKKPSFLH*SPNPHPLSPF TPKGGPGSHPSRLSARRFIKGV MGPAALGGQSRCTLRGVGEGTP PLALNSTALGPWGCIFYPCFLFK LQVSHVWAATRRREKLKI
8071	38439	A	8126	116	333	KLRDRCLSH*K*NGASPPRPTN YSIMRPSLV/SLVHHSGL*FPQM LRALS*LRVFGVA/VSSP*MVPL NPCIIH
8072	38440	A	8127	5	829	KPSQPQPCPRPGPPRARFLRRSP DVEKIPFA*RPCDVRGRPPAGG ARRRAASLG/PWVRRRLQARPG /LFRPRDFYLRSPRSYGRTP*KSP QSSPRGSARPDPIGPAIPPEPPV KRRARGVLESSRHAAPRRVFHL GREREQSQEGPAWPKRGRPAPS PQRTATWRPAAGGGK*GSAAT S*ARAGPARRGKRRG*EPREN RAGRPA TRGRPGRRCPPA*S PRPSKRSSPLCSPPRSWPTRPS KSSYGASLARTTTLQWKFSVNL IRKQIRDAQ

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8073	38441	A	8128	5	844	KPSQPQPCPRPGPPRARFLRRSP DVEKIPFA*RPCDVGRPPAGG ARRRAASLG/PWVRRRLQARPG RFAPGTFTCGAPRSYGTRP*KSP QSSPRGSARPDGPAAASARATR EAQSARGLGELAAAGSQAGLP LGKGARTEPGGSS/CSQGPAPW KRGRPAPSPQRTATWRPAAGG GK*GSAATS*ARAGPARRGKRR G*EPRENRRAGRPATRGRPPGR RCCPPA*SPRPSKRSSPLCSPPPS WPPTRPSKSSYGASLARITTLQ WKFSMNLIRKQIRDAQ
8074	38442	A	8129	795	914	RGIRLASEMYPLTCFWRs*LYR RGLARIALVNCRRNAL
8075	38443	A	8130	4073	5350	YSLKSGSVTPALFFLLKIDLA MQALFWFHVNFVKVFFPNSVKK AIGSLMGMTLNL*ITLGSMIAIFT ILILPTHEHGMFFHLFVSSFSLS NGL*FSLKRSFTSLVSWIPRYFIL FEAIVNGSSMLMIWVSVCLLLVY KNACDFTLILYPKTLKLLISL RRFWA/GQWGLFDIQSCHVQTG TI*LPLFLIEYPLFALLPNCPOQN FQHYVE*QW*ERTSLSPVFKG NTSSFCPFSMILAVGLS*IALIIL RYVPSIPNLLRVFSMKGC*ILSK AFSASIE/YNHVVFVFGSVYMQ FLLVPLVEFGCESIWSWTFFGW *AIDYCHNFRSCYWSIQRFNFFL V*SIGRVYVLRNLSISSRFSLLFA *RCL*YSLMVVCISVGLVVISPL SFFIASI*FLSLFFFTSLASSLSILL IFSKNQLLDSLIF

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8076	38444	A	8131	1	1715	MDGISGGKRALRERHSKSKAL GRCPFWTNIPTPALPGITNDTTI QQGISGLIDSLNARDISVKIFEDF AQSWYWILVALGVALLVLLFI LLLRVLVAGPLVLVLGLVGLV AYGIYYCWEEYRVLRDKGASIS QLGFTTNLSAYQSVQETWLA LIVLAVLEAILLVLIFLRQRIRI AIALKEASKAVGQMMSTMFY PLVTFVLLLCIAYWAMTALYL ATSGQPQYYLVASNISSPGCEK VPINI\SCNP\TAHLVNSSCPGLM CVFQGYSSKGLIQRSVFNLQIY GVGLFWTLNWVLALGQCVL AGAFASFYWAFHKPDIPFTPLI SAFIRTLRYHTGSLAFGALILTL VQIARVILEYIDHKLRGVQNPV ARCIMC*FKCCLWCLEKFIKFL NRNAYIMIAIYGKNFCVSAKN AFMLLMRNIVRVVLDKVTDL LLFFGKLLVVGGVGLSFFFFS GRIPGLGKDFKSPHNLYYWLP MRNPITPTGHVFQTSILGAYVIA SGFFSVFGHVCGRSFLCFLGK DLGVSNNFGPGRPY\Y/MVPRA FLKILG/KKNE\APPDNKKRKK
8077	38445	A	8132	1	208	GTRASSAPCPSSSAPAHSEAC CCRMSLWGSCGGSGDGSSACG SGWNLSMAGTSCSSPAMCSPSR APS*RSASRPRTWRATTSAA WAPRRCWCGWA*SAT*PSSTTT ISSSPHCGWPCPASCASAAAWL SSTWATASVAGSCWGPIM*SSA PAHSFEACCCRMSLWGSCGGS GDGSSACGSGWNLSMAGTSCS SPAMCSPSRAPS

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8078	38446	A	8133	28	1956	SRAARERGRSDSGGRSDPGCPA VPACVPRSRPMTAPAGPRGSE TERFLTNPNGYGTQAGPSAPPT PPEE/VRPSPSS/TNTFS*VPATSF EPRAASPAS*CCKWSRSWWSR CSSSCLGSVISWL*HSGKRTSP SDTSSCWATRTERMTSPQPTRG SSCTRPSSMLWT/SAGGRAGAG GQAGAVPGVA/WTCHWAGLLS ASGTTTEATWTRPTTHLTLIRW WLLTASRWIPPSGPLRPATIS SWKAAPVTRTSRSNSTSTACSL EGGPGVSTWQGTALALGAGRDP KTPLTLTRASCLGWSMSPSTG *RPLTSRASSIMRSRTAIPAS*S RLTTKHTVGGSPSAWRPRPTSR SVSTPVSSSTGGQLPGSCLTW WSYSPACTSSSPLTPSRLPAA EQSLWGSCGGSGDGSSACGSG WNLSMAGTSCFVTSVDLHHLG HHS*RSASRPRTWRSRRAAAS SWAPRRWCOWA*SAT*PSSTT TISAHSPWCLSACSRSMGTTC L*RSPPCRRSRAAAA WCGSSPS STFTPSSSLFILHGAQPLHRAHH RAPTYTIKHSRRRRRRKRASCR PYIAQCPGPHLRQVPPRERAR PIAILLLLRKGPLGGAFAAGELI RPDCRWTVGPGLQRPPPTPLIY L
8079	38447	A	8134	1	2994	MQRPCLC VEPMLCFDSFLLLV NQEEEEGVVPCLEENGRAAA DPGPQDQDCLLPTLTPSLSGDE APDRTOSSGDPRERCGYLSVTC EEGDNRFAAFCLCGSWRLNHG HADWCDQRRSQISNRLPASLGH VGTGRSRHLLAALRGVKEDRQ TKGCVQTPASLPWLPGLSSET RAQKTCVLLIDYATFLKLAND DDDGCLDCLQPGVRTA WASSQ HGIRAPRKSVQGSASSPSLRTW ALTCTQNWFCVLLVK
8080	38448	A	8135	215	418	

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8081	38449	A	8136	767	1458	WREHLTKFNVWGKQHLESLSN QQKNMRCPVRSQTRPPTDVKP VSRSGRRDRRAAGGEGGADR QGPGTARARAPGSPQRGG*GR NLRIQAGPPGKHGRGIPPPQTRG RSRGAPPGTPEGPRHPPRPA PGPATGAPKRPQPQTQRQGHIA RDSRPSSDPVPLRETGAPPPWD A\SQGQAARPRATQTPSSAPVA TRQSGRRADSRRRGVTRRTER CAQPSLA VSRVPTR
8082	38450	A	8137	3	424	
8083	38451	A	8138	1	813	MVQKELEEEGRKSTPQSWGRE NMEKALNSSLKASLGGSGVMI CASVKALLTVVIKVLGRLLAES LFLLLQTQTAL*QTL/RHTNRNI SHQYQDEIHLDGSDLPMSRPR KYEPVPFGRKTYKISIRGKAN KKCEEARQEKEAMVMKYVRG EKESLDLRKEKETLEKKLRDAN KELEKNTNKKIKLSQEKGR LHQ LYETKEGETTRLIREIDKLKEDI NSHVIKVKWAQNKLLKAEMDS HKSFKNPLVR CNFAATFGYVK KLIPEIKTGSSH
8084	38452	A	8139	3	808	NVRVEPTDSSFMEIEFAQKGA FDAYVAVGGGSTMDCKA/AN LYASSPHSDFLDYVSAPIGKKG PVSVPLKPLIAVPTTSGTGSETT GVAIFDYEHLKVKIGITSRAIKP TLGLIDPLHLHMPARVVANS FDVLCHALESYTTLPYHLRSPC PSNPITRAPYQG/RNPISDIWGYS TRWGFVG*VS*RRAVQEIPMDL *KARSHIMHLASAFAGIGFNA GVHLCHGMSYPISGLVKMYKA KDYNVDHPLVPHGLSVVLTSP AVFTFT

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8085	38453	A	8140	2	1154	IDPLHTLHMPARVVANSFGFDVL CHALESYTTLPYHIRSPCPSNP TRPAYQGSNPISDIWAHALRIV AKYLKRAVNSTDK*RRRMSLR APSWEWPSRSGPARCLPRRFY IT*GS*QRYLLWPLETVDEKY VSLQFSFRQGVV*ITCLIFLPT *HFFHHHIF*GSSLFCRNCQC* CVIVRYLYHSQGWQKSR*S*RO GLIWHLGKCFLLGIGFGKCWVF ICGHGNV/SYPISGFRWKDVIKG KGIYNVGIHPTGWPPWAFSVVP HVPQRCFTFHGPRCFPERTPWR WQEILGADTRTAQ/RSQDAGLV LADTLRKFLFRSG/IVDDGLAA VGYSKADIPALVKGTLP/QER VTSFAPRQSEEDLAALFEASN ETVLNVHLN
8086	38454	A	8141	2	990	WENWISIC*RMKL/DPYFSPYTK IKSKWIKDINVKPTMKLLQEN IRETLQDIGLGEDFSQAQATKA KVDKLDHVFKFNCTAKETIN KVKRKPKEWEKILIFADYPSDK GLITRILFIDHSWVFLGEGNLAG SSDNSGGKAWKHLLPLLASRCS GTHSNLRAKLRLSQGTVATWP VLKREGEKSCGPSESPDLGAPQ ARDVTPCLGICSSWLLQASGHH HIPWCQLWKLFFVYLVQLQPH REVALVPAPGAHPTTASVPVC AQWLDPMVIHSHTLCCSEPDSP LAGMGFRPVAQAKHNPARPSG WNESRPEQNLDKGATSHRGF WLAR
8087	38455	A	8142	1	196	GQYPWPLETNPRFLRE*TLPKS LQKSL*DSPVPE*SLCGTCQQA RSLSEEVDESSISQVCCPT
8088	38456	A	8143	3	413	ITLGKDCIMHGYML/KLGNPFL TQWQRRYFTLFPKNI*WRRRGE SRQNLLTMEQILSVEETQIKDK KCILFRIKGGKQFVLQCESDPEF VQWKKELNETFKEAQRLLRRA PKFLNKRPSGTVELPKPSLCHR NSNGL

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8089	38457	A	8144	705	1983	EIKVDSLLKSF _{LDL} MNGKQNL ENLNALKDFAMMLNLSYATEH LGLEHMHNRFVYVYRDLKVRIT DRILHSRYCVNGPLEDKVTEK DFPGNPEIKPSIGKWLGCPS*KS PTLSQRGLMTLPCQTLGSG*LSF PE/VLDLP*WTNAHFADWFSLG CMLFKLLRG*VEMHPSSAVLM AAGAWMKTTVVRGFKTVFLSV W*LSCFIPSKRDVSKRLGCHGG G*AIVPAFRYLQKSKIVLNQ YPPPLIPRGEVNAADAFDIGSF DEEDTKGKIVHM/CHLFLYFYF WM/VMSVKGQEVTTVYEA NADTDKIEARKRAKNKQLGHE EGKIAHVSQNISNAVNQNFY LTQWQRRYFYLF _{PNR} LEWRGE GESRVSLRQPHRACFPVRTMAY GYWLLRAPKFLNKPRSGTVE LPKPSLCHRN _{SNGL}
8090	38458	B	8145	156	281	VWCCSR _{TAL} TR _{TRNC} CARR _{RC} RGSRTW _{KRS} GRSS _{RRRAH} /SQ YDLERL _{RAA} QKQLEREQE
8091	38459	A	8146	2	181	
8092	38460	A	8147	3	670	ETGLKNEGRV _{LVR} HS _{AWC} P _{LL} WGREGSRSS _{LSS} WPELQGSPLC ASQGVVLQQDSYIEDQKLV _{LSE} RAL _{TRSL} SRPSS _{LIEQ} EKQ _{RSLE} KQRQDLANLQKQQAQYLEEK _R RREREWEDRELER/DGRPSWP SARRRCSRGSR _{TWKR} SGR _{SSR} RRAH/SQYDLERL _{RAA} QKQLER EQEQLRREAERLSQRQTERDL CQVMGLPAESN _{LMM} ILKTPCV LSKVRK
8093	38461	B	8148	47	699	MNRGGFAVKILALLDALSTVCS QRVQAKKQQH _{LQNK} EHFKA LLKQKEKLKQQEDL/RKKLF*IQ GIRCPQATPHHGQCSL
8094	38462	A	8149	1	242	

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8095	38463	A	8150	3	929	ASSCVVRAVPPG/SGVWGFRCG LCGPDCESGLISGSRMFAFPQ G/PPGAGTAVTLAAAGEEGLES STAQHSGSLCSEEPV/PPRHA WQKGSYSRNWLPAPRPPALA MSSDTRGQAQLSPSWQLEKKG LSSSTAQRGCRALQGRAASARR VQRKANPTAGTWLRLAPGLP LLCPQTPGGRHSCPPG/K/PGK EGLEQFYSSARLQGFAGKSRQV PDVTRKANPTAGTWLRL/HR GPRGGEACAMAVRGPRSHEQR CPWSAGADSVS*GHCEGTIDGR VASGACLVDSRGSAGQNLP DPEHWHVFCDFP
8096	38464	A	8151	2	1749	WVQGASLCVRAKRAPLPLAR* VQGAELTHPWGPAHP*TRNQ KPALGSSGPHSPHIGNPQTPTQA GQP*PHTARHGVPQEHGRQR GPHLHKTETPQEATP*EVGSIAT EQAWLPHLCL*RPFFHQLGLFP RGPCMEGAQQRVGESSAAGT QVCMGPKTAGDWDGPWLVCW FH*GEEAARILRPGLG/GLSGHP LWPQGGQMTVGYGGASEAC GAGELLMRRAPPQSPGKARGL PA/HYWHQGTGPRKAEI
8097	38465	A	8152	1	583	MAAVVAATALKGRGARNARV LRGKERDPGEGRTAEDPFSFTS SPTIAGGILAGATA/NKASHNR TRALQN/HTASPEGKEEP*/DPLS PELENTFPRKEGQRTPMESCGN LPWAIIGFPLWFLPLSSFTQAG KWDK/VTVLKAD*RLRAEHCG FSNTGRV*RRRRFRAFLPEVAPF PLMFGSGVSGGADLRVSCDPP
8098	38466	A	8153	141	341	GTRGSPSKKGERVRRDAQQT TW*TRSPASGCFQICEGNKQDE ACDVRGLQHCERHSLAGPREY
8099	38467	A	8154	1	521	MKNRSRNKGNVEWQAEGIRSK RSVGKQRPSPKAKIPSGDKNGVS LTHNEVINNDNPLESNDEKEGQ EATCSRPIQV/EFQ*Q**LFRPE* WRRASGNLQIPKKRVS*A*GTR GSPSKKGERVRRDAQQTATW* TRSPASGCFQICEGNKQDEACD VRGLQHCERHSLAGPREYMP

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8100	38468	A	8155	1	619	PEAELHNHGIQINSCSVRLVDIK KEKPPSNSKVECCQAQARTHNN QASDIHVISSEDESGSTDVDEPLE VFISAPRSEPVINRATPCELCX* KEG/QEAI/C/SRPRDVPRALGFR KFSPPFEESFRKGLLGQDDPDPD SIEKKPPAEASSGALRSKHGEK APMTSRSTSTWRIPSRKR/RFSSS DFSDLNNGKELQETCSSSLRRG SGKE
8101	38469	A	8156	362	1043	PTTPPSAGSSWTTASPPS*GKA WLGTRPPSPWRRMSASMRT/S EEDGRLQPQLPL*AHPSESSGQ DRGNQVSVGREADCQQD/SPVS TMTRSHPGRPCAEGC**PCCSSR P*PCPCGSGSLVTSPLSLPAPSF WLPLRPSISPPGLPPLQSSLSFPP PPPPVPQPPAPPALQWGLHLPG VPQPGVPAGRRVVRLSAKHLPR LPDHSV*GAPGRRSLREHLPOH RPGDQ
8102	38470	B	8157	52	633	
8103	38471	A	8158	15	3054	AGPDGLAAPASCQGARGQTRV PGAFSWLAPGSHHASEGLAPG VPPAGGVSAQELTAPPQEGWG LGAPPAAPRPESDEKRAAGSDAV RSFSRGARDSLGQRRLGGTRGA GPAGKGAQRTMGPSAGFSFPP RPHQEPSRSCWQHLLWHCP WPQPSRLPRLTPAQLLQGGPGVL AAPPG*HVPGLAQSPWPLPS GPRSP*DPLHQGALVPLPQGGG PHTAPHCLPSVLSPAIQQLPLPT AST/SRSPASTMAP
8104	38472	B	8159	748	3111	
8105	38473	A	8160	1	463	GGGGGRGQRGRSPRPRYLCPGP GPTG/GPGACAAGGVTVGPS NGRPLLPQRHPPVGVDFSRRC RFRLPKHKERSPDARFKEGPGG AA/GPGARGQ*DSARTPDSALK LVRPPLPIPTGRPSCASGGP*PA GKRGHLSAPPRPGRSSPGPSQP

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8106	38474	A	8161	1	2733	MALRRAGAGRTGCFIAIDTML DMAENEGVVDIFNCVRE/LRAQ /RVNLV/QTEEQYVFVHDAILEA CLC/GNTAIPV/CKLQNLQNTK CTAMSNYTLTQGLLQHWLS*T T*FIWLAGTMRLLCLSLCVDAAS APWVLKTLNIVT/PRVRPEDCSI ARPNHDKNRSMDVLPLDRCLP FLISVDGESSNYINAAALMDSHK QPAAFVVTQHPLPNTVADFWR LVFDYNCSSVVMNEMDTAQR GQS FVGPLEFGGAQL
8107	38475	A	8162	1	307	
8108	38476	A	8163	3	969	GLFCSRKTPPSK*KHNVIASDK AAEKSVVHEHSHDHTQLHA YIGVSLVLGFVFMILLVDQIGNS HVHSTDDPEAARSSNSKITTLT GLVVHAAVFYVSLFPNIADGV ALGAAASTSQTSVQLIVFAIM LHKAPAAFGLVSFLMHAGLER NRIRKHLVFLAALAPVMSMT YLGLSKSSKEALSEVNATGVA MLFSAGTFLYVATVHVLPEERL KLVTVLGAGLLCGTALAVIVPE GVHALYEDILEVVPSPFYCHLY VVEYLMFSSHFCSPPWQDQL LTLRVCSSTSASLGEGCLGVSSI RKGMELSVQAQHHVEVAKA
8109	38477	A	8164	164	240	
8110	38478	A	8165	2	417	QQIRKLIKVLIIHKPVIVHSQV GCQKSTFS/RTKGRHMG TG*R KSTANFQMPEKVTWMRRMRIL HWLFGRYHESKKTDHHMYHSL YLKVQGNMFTNKQILMEHNHK LKADKAHKKFLADQAEARSSK TNKASKLREER
8111	38479	A	8166	1	86	RTRGCLSHNNHH*HLHRHHLH HHYPYSY*HHHCLNYH/APYLF HWLYH/APHHLNQHAHYLHL YHHHYNHHHHLHHHHRSHCH HHHHHLTIHLLCQHHHHHFHT KHLLLAHPOALQTHHNNHDM/ HHHYPYSY

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, v =possible nucleotide insertion)
8112	38480	A	8167	50	1156	LLLQFSRATFILFPQPPANTFTSA FSQTRARRGGSGRGGGQESAEE TSEFGDRHAPEAAAAATRGSAR APEPKHASSCGTRGQCACARRE VEAQVRAKGDIVAERARRGGR WLTRSGMEHLERCEWLLRGTL VRAAVRRYLPWALVASMI.AGS LLKELSPLPESYLSNKRNVLVN YFVKVAVAWTFCLLLPFIALTN YH/HDRQGWLGPAAD*/CTLLV GTAIWYICTSIFSNIHYTGSY QSPALEGVRKEHQSKQQCHQE GGFVHGFDISGHSFLLTFCALH DCKKRCLCLQ*R*KTDRLSHCLH TAITTLVVALGILTFIIVLMFLC TAVYFHNLSQKVFGTLFGLLS WYGYTGFVWPKAFSPRTSSPEL
8113	38481	A	8168	2	926	
8114	38482	A	8169	2	1053	TRERFSVANRVGTSETVPKAEA GPESAAGGQEEEGEDEEELSG TKVSAPYYFSFWGTLEYHNAMV AGTEEARDGSAGVRVLYLYPT HKSLKPRPVSLGKCRFKENC FSHGQVVSLDELRFQDPDLSS LQAGSACLAKHQGWPLERQHA SPMWDNGYLSQV*LAAA\RE AVVGGGRHPAPTAKRPQESD SDS\EVVRTFAMPEWGWQMLW TLGPAALPLLGWVHTRGIGSR LLTKMGYEFKGLGRHAEGRV EPIHAVVLPKGSQDQCVETLQ KQTRVKGAGTNKPPRCRGRGA RPPGRPAARNVDFLNEKLQGGQ APGALEAGAAPARRSKDMYH CQCECQAGP
8115	38483	C	8170	166	419	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
8116	38484	A	8171	55	1157	ALDEPHGAGASEERAGDVF GP PP RRVPGPSLWPLEAWPTSSQKV MPQV RC LHLHQVWGQ RG GGPPR IKRWAWAARGHTGLGPTPHGP SWTHSNFLKEKIF* K MFAKQV GPEAKQSLP NG FPGVATAWSP VRSSVCPLFIKAR P SC*QLQDSC WDPGGTETADPGHTGLELR F PE PPKPTLPLALSEAPVPQREEKTQ GRGHYPAPQCLPGDPCS PH HPA PQPHQPHPAR/HN* PPP PRPSSHP PTTVPPTRPQPWQPGCCAQPPR PCLH* R GGN* V Y*GMQLHQKS VSWPHSQWPQKREGNGSSHEI HPSCPPSGFHG P SP E GRMPTQA GALHSWVPGLSLSHGSGPHPPP RWTATVQAARPRV P PLTNL
8117	38485	A	8172	1	362	LFDNTVYCPRT ER LLKNDTKH QRHAQSACQLSTTLVCSQHRK VSD F IFQHKHSAPLPQKSKRKQ NQQSFM L KTNLKLGIDEMYRA IYDKPTANIILNGQKLEAFPLKT GTRQGFSLSPLL
8118	38486	A	8173	1	655	MIISTDAEKAFDKIQPFMLKTL DKQGDIGTYLKII RA IYDKPTAN IILNGQKLEAFPLKTGTRQGCPF SQLLFNLMLEVLTRAVREEKEI KGIKYLGIQLTRDV K DLFKRN* KPLLNEIKEDTKK W KNIPCSWI GRNTNVKMAILPKFR*WTR*RQ FSTVHKD*KLSETVSHSYLKIKF WKLKRP F LLHSEPLKERQQDSV SLMNWVCMSSKTGQY

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, V=possible nucleotide insertion)
8119	38487	A	8174	2	1936	DKPTANIILNGQKLQAFPLKGT TRQGCPLSPLLFNIVLEVLARAI RQEKEIKGIQLGKEEVKLSLFA DDMIVYLENPIVSAQNLLKLIS NVS/KV*GYKINVQKSQAFLYT TNRQTESQIMSELPFTIASKRIK YLGIQLTRDVKDLFKENYKPLL N/IEKEDTNKWKNIPCS WIGRIN IVKMAIL/PKVIYRFNAIPIKLPM TFFTELEK/VTLKFIWNQKRARI AKSILRQKNKAGGITLPDFKLY YKATVTKTA/WYWYQNRDIDQ WNRTEPSEIMPHIYTL/V/DKPE KNKHGGKASLAFIKW/CWENW LA/ICRKLKLDPFLTPYT KINSR WIKDLNVRPKTIKLEENLIGITI EDIGVGKDFMSKTPKAMATKA KIDKWDLIKLSFCTAKETTIRV NRQPTTWEIFATYSSDKGLISR IYNELKQIYKKKTNNPIKKWAK DMNRHFSKEDIYAACKHMKKC SSSLAIREMQIKTTMRYHLTPV RMAIIKKSGNNRCWRGCGEIGT LLHCWWDCKL/VQPLWKS VWR FLRDLELEIPFPAIPLLGIYPND YKSCCYKDTCTRMFIAALFTIA KTWNQPKCPTMIDWIKKMWHI YTMEYYAAIKNDEFMSFVGTW MKLETIILSKLSQEQT/KHRIFS LIGGN
8120	38488	A	8175	2	1105	LPTKKSPGPDGITAIFYQRYKE ELVPVLLKLFQSIKEGILPNSF YEASIIIPKGRDITTKENFRPI SLMNIDAKIP**KY*QN*IPA AH QKSLSHHD/KVGFHPPGMQDW FNIHKSIMLIQHINRAKDKNHM IISIDA EKAFDKIQPPFMLKTLN KLIGGTYFKIIRAIYDKPTANII LNGQKLEAIPFEMLKVMYRAF RQNKQIKGIILEKEEVKLSLFA DMIVYLENPIVSAQNLLKLISNF SKVSGYKINVQKSQAFLYTNTT QTESQIMSELPFTIASKRRKYL GIQLTRDVKDLFKKNYKPLLKE IKQDTNKWKNIPCS*VGRINIVK MAILPK*DVLASPSPTMTVTC RKQVQVL
8121	38489	B	8176	120	2036	
8122	38490	A	8177	3	316	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met bod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=-possible nucleotide deletion, v=possible nucleotide insertion)
8123	38491	A	8178	1	1447	MSIRVTQKSYKVSTSGPWFSS CSYLSGSPSAHSSLSFSRAGSSSF QGGGLGRGYGGASGMEVITAVM VNQSLSPINLEVDLNIQAMHT *EKEQIKTLNKFASFIDKVQFLE QQNKMLENKWSLLQQQKMAQ SNLDNMFESYINNLRWQLETLG RKKLKLEAELGNMQGLVEDFK NKYEDEINKYTEMENEFVLIKK DVDEAYMNKVELEYRLEGPTD EINFLRKLVEQEIRELQSQILD SVVLSMDNSHSLDMSIIAEVK VQYEEIANRSWAEARMYQN* YEELQMLAGEHGDDLSTKTEI STINQNISWLQAEIEGLKGQRA/ SLESTITDVEQRGELVIKDANA KLSQLEAALQRAKQDMALQLH EYQELMNFKLAQDIVITTYRKL LESEGSWLESGMQSMSIHMKT TSGYAGSLSSAYGGLTSPSLSYS LGSSFGSGAGSSFSHTSSTRAA VVKKIEAQNGKLVSXSSDVLPK
8124	38492	A	8179	272	1813	KCGLRSRSFSAPSRIAWFGPP ASTPASTMSIRVTQKSYKVSTS GPRAFSSRSYTSGPSRISSSSFS RVGSSNFRGGLGGGYGGASGM GGITAVTVNQSLLSPLVLEVD NIQAVRTQKEQIKTLNKFAS FIDKVRFLEQQNKMLETKWSLL QQQKTARSNMNDNMFESYINN RRQLETLGQEKLEAELGNM QGLVEDFKNKYEDEINKRTEM ENEFVLIKKDVDEAYMNKVEL ESRLEGLTDEINFLRQLYEEIIR ELQSQISDTSVVLSMDNSRSLD MDSIIAEVKAQYEDIANRSRAE AESMYQIKYEELQSLAGKHGD DLRRTKTEISEMNRNISRQAEI EGLKGQRALEAAIADAERQGE LAIKDANAKLSELEAALQRAK QDMARQLREYQELMNVKLAL DIEIATYRKLLGEESRLESQM NMSIHTKTGGYAGGLSSAYG GLTSPGLSYSLGSSFGSGAGSS SFSRTSSRAVVVKIETRDGK LVSESSDVLPK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, \ =possible nucleotide insertion)
8125	38493	A	8180	1	3519	MIHKELPALAACGLVADFDPVG EEETADFGPLVLDSDSDSDSDR DIEEAIQEYLKVGSSKDQGSASP VMSRADSFQESIRAEIEQFLNE KRQHETQKCDGSEVKKPDTHE NSAKSLSKSHQEPATKVVHRQ GLMGVQKEFAFCRPPRLAKTN VQPRSLRSKVTITTTQEKEGST KPATP/TRPSEAVQNKSGIKRSA STARRGKRVTSVQQAPEASDSS SDDGIEEAIQLYQVQKTHKEAD GDPQQRVQLQEER
8126	38494	A	8181	208	445	AACVWREHHRHAECCGCPGVH LPPLLHP*KSKWPGRC/RLRGN AAHPPWGGQATPALCCGLQ QPESSQ*GLSSLGSSR
8127	38495	A	8182	1	1607	MDMFRSGIRRDGGLGDGIVRA RRRRQGALAGSSQPIQAAVPR GPAGPAPRDRSPWSCQSSGEA *PYWKLEGAGLE/RKRGTEIRA VGEQLESWRSWRKDVAGCSSP TPIPEFGAAAPTKS/GPAGPSSTQ QPSRSIWAAPKRLAG*DTAHH NHP/SAAP*PAPODRARPK*PPR ADPQRSVTPPRSPKGS*GSPFFP KQ/PRIPKSGAASEASNPLLAITS QVVGGSESETRVEGLMKESV REGNAAFSRFLRKSIV/ACKPPAS EKDRGSRAAEGDEHASSNLQEP IPHLP*TALGERPEARQQIRFRP PGEPCSHPRSVNELGTGEPHTF QLGCLQRHPGAVDQAGPRGPG AGSRARETGKTGTNSEAAVRQ EPKQRILSKIHTSSTPGHRL/EPT AFRTRSARSPELASHGHQAGKVV AGPRVVRARGA/PPTGRPGLAAR PTEAERASRAPCP/PQTDARLFI TARPRGKSGCRLPAHSPDPSPSR LPGPRSRSLSPA VRVVAAGEK EASGAETAFPAWGTMAFWSL QPRALQAL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,406,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
8128	38496	A	8183	3	683	ERGITAGPPGVHPPTARSAGAA LPVWDSACVEGVPPAPAMDP *EHQLRISGLGCQDTLMLIESGP QVSLVLSKGCTEAKDQEPVTE HRMGPGLSLISYTFVCRQEDFC NNLVNSLPLWAPQPPADPGSLR CPVCLSMEGCLEGTTEEICPKG TTHCYDGLRLRGGGIFSNLRV QGCMPPQVCNLLNGTQEIGPV GMTENCNRKDFLTCHRGTTIM THGNLAACI
8129	38497	B	8184	230	252	
8130	38498	A	8185	29	316	GRVSRCLPFKLVTPVLCFLWH RSY*EYRNF*MQISKTLQKQR PTRFTG**QPWPRWW/PAPPRPS QGRLAGREWSTQAHPRDSQGP RLCGEGRGA
8131	38499	A	8186	1	57	SRPVQAGPKATGTPQPPPS*PEP VERPLSMASGTHAQGSPSPSW PQLTGAVAQDPSPLPPRDT APAPSMPTADGVQRCARQSGN TGPRVAT*PVAPTSFPAGPDSGE MG/ESCRRRPGT*PTPFQSLFR RRPSASRIYGLLGPCVISL/HKK QKSLPPLAPPGTITVDILFTWAS SLFSLNATEGHTVRHV*CSRRN YQKANAPRTPTASPNTRSHSLG NAKTPPQTVPHRDHPTQEHTG DTSSCVAVLSANTRERAAVEC GVTVLNLD*LK*TARSSMSA STGVAGSVQGKR/LRTSALSSG G*GPKATGTPQPPPS
8132	38500	A	8187	1	3564	
8133	38501	A	8188	154	256	
8134	38502	B	8189	1	1206	
8135	38503	B	8190	1	1311	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
8136	38504	A	8191	2	2491	EAGWEEGPSQNGLVLQGEKL PPDFMPKLVKNLLGEMPLWVC QSCRKSMEEDEQTGREHAVA SLSHTSCKSQSCGDDSHSSSSSS SSSSSSSSSSCPGNFGDWDPSF LAEHKRLGLWNSPHSIGAMP SLGSPPTIPGEAFVSEHHQHSD LTAPNPSPTGHHPPQA/LSNP/AL TPAPLAP/APHPLLPTTAAAPFP AQASECPVAAA TAPHTPGPCQS SHLPSTSMPLLKMPPPSGCSHP CSGHCGGHCSGPLLPPSSQPLP STHRDPGCKGHKFAHSGLACQ LPQPCAEANGLGEEEDSSSERSS CTSSSTHQRDGFCDCCYCEFF GHNAPPAAPTSRNYTEIREKL SRLTRRKEELPMKGGTLGGIPG EPAVDHRDVDELLEFINSTEPK VPNSARAAKRARHKLKKKEKE KAQLAAEALKQANRVSGSREP RPARERLLEWPDRELDRVNSFL SSRLQEIKNTVKDSIRASFVCE LSMDSNGFSKEGAAEPEPQSLA PSKLSGSSEQPDINLDLSPLTL GSPQNHITLQAPGEPAPPWAEM RGPHPPWTEVRGSPVFVPENG LVRR/HEHRAQPIPGDLGQDQT AGHPSSEEASSKEVPSCQELP EPVSSGGKPKQKGRQGSQAKK SEASPAPRP/TSQPRGSCQCGPG RWP/TSSQAGS*SLPK*AAVLKL ERGAGGAGQDQVGLAVPKLRR
8137	38505	A	8192	277	434	
8138	38506	A	8193	4	168	
8139	38507	A	8194	26	219	PRLQCIGQPRLTLPPGFK*FLCP SLPSSWDHRTPT*LANF*KNY F**IWGFMTLMGMSGTCNP
8140	38508	A	8195	1	498	
8141	38509	C	8196	105	251	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
8142	38510	A	8197	1	1620	MWGVGKIDPKDVIDTLIPGTC GCVTILHGERHFVDVIAKPTRS VQGNPKLGSKKMEVSIMKTQE SIKLTVKATTQRRNRNESNGPT TEFHQSTMTNTHSDTWMVVLD PMKPGPFVEVMAQQTLEKINF LRVHDLVFGDVVWLCSGQSNM QMTVLQTLSCGVVTVIFIMTLA GAHGTLSSGIFSIYQSDSLKCK SGRKAPVGPVRVLRGTYSQS NSTGNPDLFVQDHTWQFCCKH SGSYVASMETVDETAFLSTHT SFRTDWELKCFITVRRQLGRQY ERTCYLSFRPVANTVEYICGFRF ASYINNDMLVQKEPAGAVIWG FGTPGATVTVTLRQGETIMKK VTSVKGLISLLVCLSQFEIVPED DPQNAIVSSADACHAELLRTIS TTMGKLMPLNLLPAGADFFGFS HPAIHNLIQSCPGARKCINLPAS RPVGLSIGPLSPLDSYQWVKFD VCKPGDGLPEGLPENDAAMS FEAFQRQIFDEQNDPLL*SSL* PWLVIHVP/LWSSGIFS/TISK*L FEV*VGSESGSGSPAEDRLHM VSRKFHRKSRPVCSSGYLAVLH *ALRILCCFHGNSG*NCFHSLHP H*/HSALTGNSSASSQ*DASLGG SMREHATCLLDPLLT*STVLV FALLHTSIMIWCCRRSLLGQ*Y GASVHLEPQ*P*PCAKVRKPS*R K*PV/CKGLISLLVCLSQFEIVPE
8143	38511	A	8198	1	900	
8144	38512	A	8199	915	986	IIIDTRPGFHDESAIYPVGYCSTRJ YASMKCPDQKCLYTQCIKIDGG VQPQFEIVPEDDP/RNAIVSFFW QMLVMQNISQDYKALLWGKL MPNLLPAGADFFGFSPHAIHNLJ QSCPGARKCINQYQWVKFDVQC TLEMGQLPEGLPENDAA/RALK PFQRQIL**RIDKRNLLKIKQL KVFPGKTITTRTFHDEIPLVSSLP SELLPSFIYPKILV
8145	38513	A	8200	3	414	
8146	38514	A	8201	1	2445	
8147	38515	A	8202	1	248	ENGNLGPQAEVKGATGECNIS ERKSPGVKISLRELDGSLVH KIAEGFSESKRSEDENENKIE FRK/KGGF*GGGFLRRK
8148	38516	C	8203	70	324	
8149	38517	A	8204	1	675	

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8150	38518	A	8205	692	808	
8151	38519	A	8206	1	1954	PGTGEETVRLGFPVDPKRVLIIV AGHHNWIAAYAHFAVWYRI KESS*WQVFTSPYLDWTIERV ALNAKVVGGPHGDKDKMVA ASESSIIILWSVQDGGSGSEIGVF SLGVVPDALLFFIGNQLVATSH GKVGWVNAVTHQWQVQDVV PITSYDTAGSFLLLGCNNGSIYY IDMQKFPLRMKDNDLLVTELY HDPNSDAITALSVYLPKTSVS GNWIEIAYGTSSGPVR/VIVQHP ETVGGSPQLFQFTTVHRSPVTKI MLSEKHLVSVCADNNHVRTWT VTRFRGMISTQPG/STPLASF LSLEETESHGSGSYSGNDIGPFGE RDDQQVFIQKVVPITNKL FVRL SSTGKRICEIQAVDCTIISSTVTR ECEGSSRMGSRPRYLFTGHTN GSVQMWGSGPLLDWMVNKSE DKDVS GPTVEELLKLLDQCDL STSRCATPNISPATSVVQHS ESNSSLQLQHHDTHESATYGS MRPYRESPLARARRTESFHSY RDFQTINLNRNVERAPENG GPIQAEVKGATGECNISKSP GVEIKSLRELDGSLVHKIAEGF SESKKRSEDENENKIEFRKKG GFEGGGFLGRKKVPYLASSPST SDGGTDSPGTASPSPTKTTPSP RHKKSDSSGQEYSL
8152	38520	A	8207	2	383	
8153	38521	A	8208	13	332	SKGFIVLLKCLQILKTPSLGPGN QGLNAGKESRGGGLSVKA*RA RPDSWRPGPPLSISITLRLKEG RRHHRALPLCCITLLASSPNCI AP/TSVP*IPRLHPFWL
8154	38522	A	8209	1	1839	
8155	38523	A	8210	1	364	
8156	38524	A	8211	3	3723	MIPAGGRAPGPPYSPVPAESEL VNGNHTPQTATRGPSACASHSS LVSSIEKDLQEIMDSLVLLEPGA AGKKPAATSPSPMANGGRYL LSPTTSPGAMSVGSSYENTSPAF SPLSSPASSGSCASHSPSGQEPG PSVVPPLVPARSSSYHLALQPPQS RPSGARSESPLSRKGHGERPPS PGLRGLLTDSPTTVLAEARRR ATVETPLRGQLPVVAISLSEYP ASGALSQPTSIPGSPKFPVPVPA PRNKI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
8157	38525	C	8212	398	415	
8158	38526	A	8213	3	45	
8159	38527	A	8214	1	929	IAAAPELLERSGSPGGGGGAEE EAGGGPGGSPDGDARPGPSREL AVVARPRAAFTPGPSAAAMAR PLVPSSQKALLELKGLQEEPV EGFRVTLVDEGDLYNWEVAIF GPPNTYYEGGYFKARLKFPIDY PYSPPAFRLTKMWHPNYETG YVCISILHPPV/DTDPQSGELPSE RWNPITQNVRDHSS*V*SSLLE RRPNTFLRPANVGRLPWMLQG SWEREQGGRIELHRTSFRKQV LGTKVDAERDGVKVPPTLPEY CVKDQGRRAPDEGSDLFYDDY YE\DA\VE\EEADSCFGDEDDDS
8160	38528	A	8215	80	430	IAQGFYPPGWPCSGPGGNTSSP RPPPTGGKGK/PGGPQK/PLAPRI PAVFTRGDSG*RSCPATTPLSA GSPSLPHRIPEPKPPHRIPEKHLH RACAHAPDPGSGGLRIFLTAHV HGKL
8161	38529	A	8216	3	645	FSVSHLLDLEEAGDMVAAQAD ENVGEAGRSLLESPLTSGTAT PQQDNDQLNSEEKKRKRQRN RTTFNSSQLQA\LERVFERTH*T PSSLFFLSFLMPSCLLTILQVWF QNRRAKFRNRERAMLANKNAS LLKSYSGDVTAVEQPTDLQLCE TNACYSPCSLPCPYSAMATYSA TCA\NNSPAQGINMANSIANLR LKAKEYSLQRNQVPTVN
8162	38530	A	8217	3	907	RVDDFVAVQLGRPIGSCFGGRA QLQEGVQKQAMAVGNINELP ENILLELFTHVPAQQLLNCR VCSLWRDLIDLVTWLKRKCLR EGFITEDWDQPVANWKIFYFLR SLHRNLLHNPCAEEGFWSLD VNGGDEWKVEDLSRDQRKEFP NDQVKKYFVTSYYTCLKSQVV DLKAEGYWEELMDTTRPDIEV KDWFAARPCGSKYQLCGHLS DAAQGPHGTFQPDATIQKQSD AKWREVSHTFSNYPGPVRYIWF QHGGVDTHYWAGWYGPRVTN SSITIGPLP*HPLSPHLLNPDW
8163	38531	B	8218	117	398	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8164	38532	A	8219	1	3063	MSLEVDRSVETMCSGDEILLPD LPKADVADPLWGFPPVQNCLS LARSDSREQGLVLMESRNRRE VVPPGVSYSKDGAKSLKGDVP ASEVTSKDSFQSFPISSAEEC GDDEKIKVDDPLTRRTCNQASG SAPQQDYDKLKAFGGENSSTK GLSPSGNMEKNKVVKREAEAN SINLSVVEPFKVRKAEDKLKEN SDNVLENRVLDGKLSSEKNDT CLPGTAPSKTKSSSKLSSSSAI MALSAKKAASDSCKEPV
8165	38533	A	8220	1	1188	MPLDEDPSKLCRHNLCLECN IFQDKTSLATHFQQAADMSSGQ KTCTICQMLLPNQ/CQRHIIQHKS P*TCPECRAICR/SHCEVFYKCP CPMTFKSAPSTHSHTYTQHPSIK IGESKIIYKCSMCNTVFTLQTLL YRHFDQHIEQKRDVYISHVRK EHGKQMKKQPCCQRDKPFSSS HSLCWHNRIKHKVIRKVVYTCSH CSDSRGTFTKQLMLEKHVQLT HGKIDPDLKE/TDRRHQ*GGR NKRPPQGPQSQVEVERTGSGV QASQGAITQPKLEINVFKVHKC AVCGFTTENLLQFHEHIPQHKS DGSFYQCREHLFVAHKLKEPOP VSKQNGAGEDNQENKPSHED ESPNGAMSDRKCKVCAKTFET EAALKTHMQTHGMFAFIKSKRM SSDEK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/546,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
8166	38534	A	8221	842	2687	KGECLPSALSLNGNGRESLES! ESLSLEGFTTRAGLRTCSPCL SLPAPPWAPVLPPEPRGAPPAP RRPVPSSTTQGLRSAGARRGTGR QLHLRPRC/ADPLGEASWAPES GSAPAILKVRIKTIKMSSGEIKR TVTRVLPEVDLDSGKKSSSEQTA SVMASVTLLSSPASAAILS/SSP QGASPVHGHQCSFTC/SSSPLN RAPA/GAIIKAANAQQQTVVVP APSRANAKLVPKTVHLANINLL P/HGSATN/ISRQ*SMQQ/RSQPP KKVSRVQVVSSLQSSVVEAFN KVLSSVNPVPVYIPNLSPTNAG ITLPTRGYKCEGDSFAVEKS LTQHYDRQSMRIEADTRGQK TCTICQMLLPNQCSYASHQRIH QHKSLEYTCPEGGAICRSVHFQT HVTKNCLHYMRRVGFRCVHCN VVYSDVAALQSHIQGSHCEVFY KCPICPMASNQNKEDTKSMNG KEKLEKKSPPVKKSVECHKVA SPGWTCWECDRLFQQRDVYISH VRKEQKGQMKKHPCRHLCQH NRIKHKGIRKVVYACSHCPDSRR TFTKRLMLEKHVQLMHSKDP DLKE/TDRCHQ*GGNRNKRHH QVPQSQAPLHCTQVKGTASV QAKWSWGR
8167	38535	C	8222	1	438	
8168	38536	B	8223	98	463	
8169	38537	A	8224	1	2679	
8170	38538	A	8225	1	1209	AADTRGQKTCTICQMLLPNQCS YASHQRIHQHKSLEYTCPEGAI CRSVHFQTHVTKNCLHYMRRV GFRCVHCNVVYSDVAALQSHI QGSHECVFYKCPICPMASNQNK EDTKSMNGKEKLEKKSPPVK KSVETKKVASPGWTCWECDR LFQQRDVYISHVRKEQKGQMKK QPCCQQRDKPFSSSHSLCWHNRI KHKVIKVVYTCSHCDSRGFTT KQLMLEKHVQLTHGIKDPDLK E/TDRRHQ*GGNRNKRPPQGPQ SQVEVERTGSGVQASQ/GAITQ PKLEINVFKVHKCAVCGFTTEN LLQFHEHIPQHSKSDGSFYQCRE HLFVAHKLKEPQPVSKQNGAG EDNQENKPSHEDESPNGAMS DRCKVCAKTFETEAAALKTHM QTHGMAFIKSRMSSDEK

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8171	38539	A	8226	58	391	FAKNDGFLHPCPEPL/PWSQTRTQSAAWA*GCNYLQPTGAADLLAYFEFLGPEGKGTG**QGLDRDATGAPSPPTARQ/RVGKALGTAAALIPSFIP*SKKMARETAAWSEW
8172	38540	A	8227	993	2235	NGGPHLWRLPTAHRACGERHGGAVACGGAAVEALVGPAPT VGLRRGCPHSAPGGYACPVSSSTYSGLGQRQCVFPHYSPRAVPN LVPALGAPK*MGPSAGL*GD MLPAASVKRAPTAAGPWMLYP YSPARLDSAA/LQALSTKKVAS DSSKEQVANSRESSLSKEVND SPRAADKSPESQNLIDGTTKTS LKQLDSPRNISSENSIKGTPASP AGSTPPIPKVRITTKTSSGEIKR TVTRVLPVVDLDSGKKPSEQTV SVMASVTSLSSPASAATLSSPA RVPLQSAVVT/KQFPLQSPPLNR SQSSLWLLSSQCLL*RQQDPK SLI*SSLTTPR*KPRSYLLPLSRV PAAPSLKLANAIQQQTVMMMPA SSLANAKLVPK\MLHANLNLPL QVAPATSELCPVSIKTPQI
8173	38541	A	8228	1	3370	MIINTIITTTTTIITIMSSSPIT ITNIITIIQHIIHHHNDQRPSLGK CRGLYIRVKVPGERATANSRC PINAQGIESCWNGVMALWLGPNSTCSRLPELTDSEDCQIYGDTERKRRHSRKTCTWEYQVETKDT FLEELLFEPALRTGIQSKQGGPL LQLAANNYNLEPKQHFGSWFG TMKQLGETESIFSAYEVCLTV YEIFGLPGIAPSKTKSFNLSCLT AIAALSTKKVASDSSKEQVANSRESS
8174	38542	B	8229	1	438	
8175	38543	A	8230	38	597	VPCGPHCRLPSAWRTSPRLWN DTTSRKWKSGVAKSSCYNL*PS AGMRKRKF*LRAPSTLSGSALL *NRLMRSRFCATSSCAS**CEQ RTSLSFEGSLWRSTITSRPPPSA ARISSASAPTRRRCASESAACRR STGRAGPGPGGGKQQMKAGR\ RGTAQPSSPHPLGIPTHPDTRG ASRQTGHL
8176	38544	C	8231	1	1062	

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8177	38545	A	8232	3	595	WSSAQPRASRAASRSSRLHSS RRLLCLRCRAPRRPQLVASAKGR ASSARSRRGRSRR*RGRARS GGGMSPLAQRRLK*ASSSSGRG AAWSRASGAARGSGPLTGRR SAPLHSSSTVPCSPRYARPGPPR ATA/RGPTRATCLPSHRSTITSRP PPS/LPVA VQPALPPGAAAPSP PRAGGALAALGPGLTVGAGR
8178	38546	A	8233	2961	3005	SRLQQTQADAFACAKGCWP GGM/DELEAETSSSLFLLAMQV WMCGRMEDIPCSRVGHIYRK YVPYKVPAGVSLAR/SKNLKR AEVWMDEYAEYIYQRRPEYRH LSAGDVAVQKKLRSSLNCKSF KWFMTKIAWDLPKFYPPVEPP AAAWGEIRNVGTGLCADTKHG ALGSPLRLEGCVRGEEAWN NMQVFTTWRDIRPGDPQHT KKFCFDAISHTSPVTLYDCHSM KGNQLWKYRKDKTYHPVSGS CMDCESDHRIFMNTCNPSSLT QQWLFHTNSTVLEKFNRN*A ALLFDESQFDSSNCQHSCYPR
8179	38547	A	8234	203	314	VPASSPALGSTLEFQLCEPINS G FCLNQID*GFGYL*ARFMSWPY WSLLSPFFLIPLH
8180	38548	B	8235	1	1008	

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8181	38549	A	8236	2	1495	CLVVTSTDSIRFQIIPWAGTEMK QE/IKLKDGSMEEHLKKPLEDY MALFPFSVRIIRTKKREGLIRTR MLGASVATGDDVITFLDSHCEN VNWLPPLLDRINRNRKTIVCPM IDVIDHDDFRYETQAGDAMRG AFDWEMYKRIPIPELQKADP SDPFECQLVRDITLGDADSQQH DVSHLARCQADFLFPWSPVMA GGLFAVDRKWF/WELGGWAFS HGDPPQPWKESLFFPSSCTSPQ VESHWPAGMPPIPEQYCNWSP AVTCPVTAGRVCLGWGW*RK *WGTDLLGARWKSPP*SP*T NQDVKNPHDLIEQFQRKEHFC TESAWLGCPOGNSWLLQSORS HRERWNHGIFMTVISAVSCGLH GVVCGGRMEDIPCSRNLKRVA/ EVWMDEYAEYIYQRRPET/GHL SAGDVAVQKKLRSSLNCKSFK WFMTKIAWDLKFPYPPVEPPA AAWGEQKDMPLSQYTSKGAGI KSYLGSCTHHWGHRGRQKQG NILIAHQ
8182	38550	A	8237	1126	1603	TIMKITGRAGDAIMGADICH/N KDRKVRRKEPKSQDIYLRLLVK LYRFLARRTNSTFNQVVLKRLF MSRTNRPLSLSQMIQK/MKLP GRENKTA VVVGTTDDVRVQE VPKLKVCALRVTSRARSLILRA GGKILTFDQLALDSPKG*GTVL LSGPRKGR
8183	38551	A	8238	504	737	QLCWAGGKILTFDQLAVDSRK GCITVLLSGPLKGRKVYGHFGK APGTPHSHTKPYVHSGRKF RARG*RAS*GYKN
8184	38552	A	8239	1	360	MLGFALLPAPPGGLV/GSG*SP DDQIGRTGPALAPSLRFPSPAT LNSAGSEIHDRPSGAPPTCLR GSAQASTSACSPGANGPEPKPG LGTLRQQLHIMATNRLDEAG WVACYPTDVR

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8185	38553	A	8240	3	666	MSFRQLFQDLKRYVQDADVR WEYCVRAKRQGTDTSLGRLFQ QGPVGPRHRAHSATSPDHRFP VADLTGQGVV*GCGPPAAPWG AG*YPGAPLHAGLGTLPAAAG AHGHQHPAG*GGAGSPATRLM SVEGCSQRPWTEAPDRPLEHEA VCSVRPRPRCF.LGGVGRAGAFL EEEWQHQSVCVPCQPPWGLGT CSSMSGKLSRPPASSLLSRGKA WGQEEES
8186	38554	A	8241	2	443	RTSLEFFFFFF*DGSTFLVAQA\
						GVQWRHLG*LQP/RPPGFK*FS YLSLLSSWDYRHALSHLANFV VYVLFVCFYETKSRSVTKAGVQ WCDLGLSLQAPPPGFTPFSCFSL SSWDYRHLPPHLVNF.CIVSRD VSLCWSGWSRTPDYK
8187	38555	A	8242	1	354	VSLQPVSQEGVSQRTLGQSSRS SGSG/CPGELNSPIFGVPHRW AA*EESRAAGVPWPSSQISGMC SKFRI*NW*DVSWAGWSEDLRS *VDLSHGAKSRRTGD*SPKGGP PIRV TAP
8188	38556	A	8243	2	241	WSTGLLRSSGS/NQSSAGKPRR SQSESPG/PSRSSSGCQESGT CH*G*RRRG*GVLAAPAGKRDL PPRVKDQVRHPCVV
8189	38557	A	8244	5	282	AKKESVREPWARVPALGVAA R*VEQSDFCGPAQMGLGLGG IPGCG/PFLGLVVRFLALVASSC PPPRKAGLAAGGEGPRQASLRG LTPLKRG
8190	38558	A	8245	1	302	LSREGVGQKALGQSSRGSGSVC /LGELNSPISSGVQRWDTA*EE SWAAGIPWPGGQIDFWHL*QA PCPRKSREGVETRREGVGVLAP SPEKRDLP.LRVKD
8191	38559	A	8246	1	200	LSPKGVSQRALGQSSRGSGSG/C PGELNSPISSGVPHRWDTA*EES WAAGIPWPGGQISGTCCKLHS
8192	38560	A	8247	23	187	
8193	38561	C	8248	1	1764	

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8194	38562	A	8249	115	872	LRRGRTPPP*ELPKARHP*WSTGLLRRSGISLQPVSQEGVVSQRAFGQSSRSGSG/SPGELNSLISSGVPHRWDM*A*EESWAAGIPWPGGQISGTC/RAPGGGGSGGMPGCCGSGVWVKFLCASRKAGKSGHRRDRSGCGHKLGLRRDMRLCGCNKSGSHRDIRGWGTCPFRKAGLAAKGEGPRQASLRGLTPDLKLVRCIPWAGWSEDLRS*VDSLHGAKNRRRTGD*SPKGGPPI LGRPLRACSAAAVHF
8195	38563	A	8250	85	529	SGSISLQPLSREGVSQRALGQSSRGSSG/CPGELNSPISSGVPHRWDTA*EESWAAGIPWPGGQISGTC/RAPVGGSGGTPGRCGSGVWVKFLCAGDVAGVCLTVEARNCNFFLLLYTLKARLIKSCPCPRKAGLAAKGEGPRQASLQ
8196	38564	A	8251	1	552	MEARETGPKWKEGNVERVASVLIKKGTGLPSTVRVTGSSASVMVYGASEAIGQHQSAAKPRRSQSESLGPEFQGLWEWLPGPRAVKRLRVIFDEKEPKRYLIWDKEKGAULTLTMPLAPATFLRVNCWAGGGGLVTERNCKP*WSTGLPRRS GSISLQPLSREGVSQRALGQSSRGSGGCGQLGL*SVLIKGTGLPSTVRVTGSSASVMVYGASEAIGQHQSAAKPRRSQSESLGPEFQGLWEWLPGPRAVKRLRVIFDEKEPKRYLIWDKEKGAULTLTMPLAPATFLRVNCWAGGGGLVTERNCKPDQKMKGIEIKRRLKCGSKIERRKRLRDEGGWRRVE
8197	38565	A	8252	535	710	KCFPACHYHHHHHHHHYHHHHQHHHHHHHHHHHHRRITIIITIIITIIITIIINIIITIIITIIITIIIFMRVRVKRPPNRLCVSNMAVYFTVWQKKKSSLAFFSSVVTSDLKSKKRRLSGKSLETSSASLMVYGASEATGQRQSSAAKPRRSQSESLGPEFQGLREW*YDGGDDDDNDGVDGDDGDDSGGGGGCGSGGKQESISIFD

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8198	38566	A	8253	54	563	AEKESVREPRARVPGARGVAA RPSA/RPR*GRLLCSPTYPKH* NCAWHQQAGCWLGTGPAAPA SPPACAAFSWGYGGLPAPIQTA FQAGW/GAPGQGRSKTTRPGV QSVSNPGEPAPEPRAAASSGLSS GAFPAATDPGICSWAEGVLM GKGHHIRPSISARIPCFHV
8199	38567	B	8254	232	987	
8200	38568	C	8255	1	1812	
8201	38569	A	8256	1	1035	
8202	38570	A	8257	2	664	SLIKLIPPPRPFGRNRHLVIRQN ERTQRGKRRGTRYMFSPRF*/R KHGVVPLATYLCEIYKQRCD VDIQGEWGTCSKKGMP/HHKC Y/HGKTGRSLTIVTPACLPLFN TTQFRRKILAK/RINVRIEHI*AL LRARD*LP*NRVKENDQEKERS PKRKGTVGST*SRQ/APPR/EA HFLPEPNEGALSCWEFFPYWI SLGLLGVKKKNKDLWATKK
8203	38571	A	8258	1	747	MSESLKPLPEVDAGAILLVQP AELYSKASRLDDCYQKDSYTH RCQEKRTCHTTGGHSGKHQSL SGASVSPTCsAKTRDKINCFDFS PKSEVITLSNDDSIIVLSDCQEG KPKPCSGPFATFKMQYDRTCE WTALKISNGGKLILISTNVSFIR LIGAFKG VVIHTFGSYANSEAV TLEASFTADSQFVIMIGSEDGKI HVVNEESG/KK*LGWMVNTQA QLPVCNSTPSSMTFASACSNMA FWLPTIDD
8204	38572	B	8259	50	260	
8205	38573	A	8260	1	541	EVWGPGLASEGAVGITHGPFPK AKRNPgKVRSKRDPPIQFQNL RRS*WRSIPRKPGRQTGSRRSL WT/ALHPGAGTAKHPPPA/CA GRET*CKSKSPAGRKWSFHRSS SRRASE*DASQFAVPAGVTSRE PFGSRRGTGPTGTGTPTRTAR SRTWSSSWVRLSGRTGAVGYS RSPSCSS
8206	38574	C	8261	177	236	
8207	38575	A	8262	1	417	

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8208	38576	A	8263	2	475	GIHTRLNSELLKEEESNKRLEAE IEYQSRSLTAAISKHSESVKTER NVKLALAE*TDVSVQVKMSSDI SEVEDKNEFLTQLSKKQIKFN TLKDKFRKKRDTLRKKSLALET L/QNDLSQTQQQIKEMKEMYEN AEAKVNNSTGKWSCVEERICQ LQHEN
8209	38577	A	8264	3	518	IFRAPFRICLGILLSPNTEQAQY KKQLEQ/FKQGYNTASLNKKEL TLKDVECKFYKMKATAYEEVTT ELEEYKEAFAAALKANSSMLK KLTKSNKKIAMIS/TQLFMEKEQ VKYFLSTLRARRGRESPCDENL TSIGL/NRKYIPQMPVRIPTS/SPQ TSNNCQNYLTVSHMTVSL
8210	38578	A	8265	1053	3733	NGRSCCERSSTKKECTDIESSEF VNRKSLTSGLEEEQQRRESEK KQPQDFHNEEVKDLMDENCI LKTDAIPRQEICTMKNDNLEKE NKYLKDIKIAKGTNAALENCIK LNEEMITKTAFRYQOEIENDLKA ENTRLNSELKKEKSKKLEAE IESYQSRSLAAAIKHSENVKTER NLKLALERTQDVFEQPAGLEEA ELVLSRLSCGEATEGAARRALA AEEAGRWRRGVG/DSWLAPES RLHVLKTCGSCW/WENLELGRH H*LCLWA VKNFQKRFLPGQKK SPFQLMSQREFQHTL*ITQKQN RVMNFIKKYLRMLSSV*CMP LT/KHSIDKEVRSTASRLPCLGS EERICPAALSGKYKKLLEMTIN VLSVFGNEDFDCHGDLKTDQL KMNILIKLKHKFDLTAKEEA VSSKCVDLAKDNQVLQQELLS MKKVQQQCEKLEKDKMLEE EILNLKTHMEDNMVELSKLQE YKSELDERAMTAVEKLEEIHLQ LNKGNTASLNKKELTLKDVEC KFSKMKTTYEEVTTKLEEYKE AFAVALKANNMSKKILTKSN KKIAMISTKLLMEKEWVKYFLS TLPTRRGQESPCVENLTSIVLNS KYIPKMTGRIPSTNP*TLNNWQ NYLTEEDMVSGDLISGTWSME EWSLGASSLGTWSAAVGGYLA RWPLCDLSVTVAESPSPLCCGA
8211	38579	A	8266	2	209	

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8212	38580	A	8267	1	1431	MTQKAAASVEHLAIRCHWSQR PAVTGVDVLQVYSGSEGTAIIFCE TQRSVTEIAMNPHIKQNAQCLH GDIAQSQRREFTLKDFREGSFKV LVATNVAACGLDPEVDLVIHG SPPQDVE/SYIHRSGRTG/FVTM TLESLEEIQDVSCAWKELNRKL SSNAVSIQTRMCLLKGNVRVCF DVPTTKSERLQAEWHDSDWIFS VPAKLPEIEEYYDRNTSSNSRQ RSGWSSGSGRSGRSGSRNYF AVDTASAIAIALMTFGTMYPMS VYSGKVLLQTTPPHVIGQLDKL IREVSTLDGVLEVRNEHFWTLG FGSLAGSVHVRIRRDANEQMV LAHVTNRLYTLVSTLTVQIFKD DWIRPALLSGPVAANVLNFS DH HVIPMPLLKGTDDLNPVTSTPA KPSPPPEFSFNTPGKNVNPVIL LNTQTRPYGFLNHGHTPYSS MLNQGLGVPGIGATQGLRTGF TNIPSRYGTNNRIGQRP
8213	38581	B	8268	128	1497	
8214	38582	A	8269	1	618	
8215	38583	A	8270	1	334	LFHSIFGYLPFARQTLLPGSILVF TYTQPPKIQFANGTKGLPDPLM TPK*QK\APLMPLLVSLGLSAST IALGTRIAGISTSVTTFCSLSNDF SASFSPYLHRCFLPWSSL
8216	38584	A	8271	1	2919	
8217	38585	A	8272	1	4192	MRIPVDASTSRRTTPSTALSPG KMSEALPLGAPDAGAAAGKL RSGDRSMVEVLADHPGELVRT DSPNFLCSVLPTHWRCNKTLP AFKVVALGDVDPGTLVTVMAG NDENYSAELRNATAAMKNQV ARFNDLRFVGRSGRGKSFTLT TVFTNPPQVATYHRAIKITVDG PREPRNNECVYGNYPEIPLEEM PDADGVASTPSLNIEPCSPATS SEAFTPKEGSPYKAPIYIPDDIPI PAEFELRESNMPGA
8218	38586	B	8273	385	3930	
8219	38587	A	8274	830	906	

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8220	38588	A	8275	483	971	ATMPGHHFYLCETGSNSVSQAG VQ*HDFGSLQPPPGFKQFSCLS LLSSWDYRHMPRPANF/SVFL VEMGFYHVGGAGLGLLTSGBP PASASQSVGITGMSHHAGPTM KLLNPQSEVIFSPRNHSTLLTP LSRHLPHPISISTWCIHYAPLHT VSISAEAP
8221	38589	A	8276	1	2088	
8222	38590	A	8277	1	1822	MMTKDGLVFLGRQSGPILYVQ GLSRFRSFSVASGDSKRTRHRE KLPLLEAGERDHNCYGSPQILA FQAICKIAKPGKEQSCSKLVGH TFDPLLEIARKPEERQKLPDPCV KWGGVGNFPVKRVGDRIFFVS QGGKFSQAPEGPEVTSGSQGLE SKTLEVYPVFYCTVAELNLHN VQPSHSTLPPQAEEPHSVATTT GPWGVLPGCCQCSLKAQGLFS QLVMNAACTGIHTSGQWAPLW PSTVPEMPSSKSGLESGTPRTCF VLYPAVAKLLPRGTLAYSGKG CQNSSANHWDTQIHSPCHAA AAREYGGKSGISDSRLSPTLFSA SFSNMNKLKDFKVFYGCFCF EATAGANVLKIIRESKYKNTD DIDILSRQATPVIAQLAHEHSGH VAGMEVVFSGFNTDFHLPRTQ WLQPLSHASLLAAETNTESKND TTPQGDQPATWRLNSGYGAF PACNASAKTIHGLTEVLYTVLV DGNHNLLTKLSLEENCLIQLK CENLQKLEQMAAIE*KSLRRK RATQEECLMHSNLKFKESAE YTALARQ/LEAALEEGRQKVAE EIEKMSSRESALQIKILDLETEL RKKNEEQNLVFNKNEQ
8223	38591	A	8278	1	5103	MDESSVHSSVGDHVDVRVSTS QVAERTRCNKMWRIETKSPSG DNEGTVIEKTRLSGQGFCFL QLSEGLQNLQAQRRKIKFREME DPSSRPLCSSLDIALCASVKPSA GFPQRPVKVPLCVLGSAGGTG DAERSLQSSDPLKKQQPLARSL RGLCERIVLGGSGCGARGRLG AGGGTALSVPGASRGFEGMFG LDQFEPQVNSRNAGQGERNFN ETGLSMNTHFKAPAFHTGGPPG PVPDAMSALGEPPIILGM
8224	38592	A	8279	1	783	
8225	38593	A	8280	888	4915	

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8226	38594	A	8281	94	757	APTGCLACNLLLCGLGVTSPL *ASAPKCVTVHN*PLCKALPRR *SSAWELS*MRKLRLRGVNFRL TDGLCFICISTRATPPSARARCV STSLKPASLQAVSYHHGSRSQ GCHLPAGREVCTSQSRGVRETS PWGCEKGSPIAEGFPAVISLNP PSSSTAHDLPANKASASQPGSH LQCLSVHCTDDVGDARASV PTWRSLHSDISNRFGTVAALT
8227	38595	A	8282	2	374	
8228	38596	A	8283	260	500	
8229	38597	A	8284	98	828	RWASVFPHPFPYILPALLEKKT AERRGGAFSRNKQTAGPCGGT LQEEGSARTVGDSYGEASAGG FSCNKEEGNQRYREG*VTEML GVGYHRALLQLRGLDPS/PALS VT*SRTSGPRPSRLNKITYCIPP RQDCYNNLAACLQMEPVNVE RVREYSQKVLERQPDNAKALY RG/SGVAFFHLQDYDQARHYLL GCRE*AALKMPNVRYPPLTR VRTQQPTHRKEQLLPWACL V NKEERCSS
8230	38598	A	8285	396	602	GNCGPEKERTCLRSPSWTPMPS PKQAVPVSSWPPGPHHQ/RCVP SRSSNFSKSSKSNSCDGNSSSS SS
8231	38599	A	8286	3	156	SVVSLSPHR*AIQILSGVAAGW GLSDGFPSSPPSPSGARDTGSPG SSLGL
8232	38600	A	8287	32	515	ARGSWGPGAGARPPGTARRAA RCATGCGSRSSSHAPVSPRRA APSSVHPGGCHGPALPPSPRR VTQAADARRAAPPLRAASAA P SRRWSQAPT/K/RRLGYPPPRP PAHPGPR/PPLRRMVSRSSEDP PRRLT*TGSETPKSTWRELSRR RSLQSKAATR
8233	38601	A	8288	30	460	RRCPAQRGEIWQSGH/RALLSC SGLHFPQTSWLPVYTVRVKLP T QALAMVDAPPPTKLECPRLISV CCYAGSENFKPVLDLSSIGGS GGVGTGRNLLVCELRRPWDKR SIWAGVSRFLRSPSRFLA*LG LSSYLTRTKT

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8234	38602	A	8289	2	1094	RMSRISDDSRATASQLDEFQEC L SKFTYRNSVRPLATLSYASDLY NGSSIVSISIEFDRDCDYFAIAGV TKKIKVVEYDVIQDAVDIHYP ENEMTCNSKISCISWSSYHK NLLASSDYEGTVILWDGFTGQR SKVYQEHEKRCWSVDFNLM DP KLLASGSDDAKVKLWSTNLDN SVASIEAKANVCCVKFSPSSRY HLAFGICSDHICVHYADLRNTK QPIMVFKGHRKAVSYAKFVSG EEIVSASTDSQLKLWNVGPPIY CLRSFKGHFNEKNFVGLASSG DYIACGSENNLSLYYYKALSKT LLTFKFDTVKSVLKDREEDD TNEFVSACVWRALTQMGESIN VLIAA*QFRVPIKVLVLV
8235	38603	A	8290	1	667	MRIKATSEDTGTVIAQAEYGSVD IGEEVLKKGFAEKRLASRTDI CEEKKLDPGQLVLRNLKSPIPL WGHRSNQSTFSRPGHLSSEKM TLDLKDENDAGNLITFPKESLA VGDFNLGNSVLSLEKIKQDQKLI EENEKLTETKDALLESYKALEL KVEQIAQELQQEKAADVLTN HLEYTLKTYIDTRMKNLAAM EILKEMRHVDISVRFKGLSDAI QVLG/SKGALLQLL*MD*R*Y GQNTVWLRRILKLSEYVSEGN LIAQRNEMQKLYMSVEDFILE VDESSLNKRKLTLQDLSVSLEA VYQAKKEGANSDEILKKFYDW KCDKREEFTSVRSETDASLHLL *HGSKEP*RIKVMQTRR*FQIHI VKYCKRFIQRKGSIPQYKLSTR TVLS/SKKQIEYLLKIPSDVHL LSIK/TDIEKLSSTQMEIG*KE* FGKSQMLMALKLK*KKK*LK KGFAEKRLASRTDICEKKLD PGQLVLRNLKSPIPLWGHRSNQ STFSRPGHLSSEKMTDLKDEND DAGNLITFPKESLAVGDFNLGS NVSLEKIKQDQKLENEKLT EKDALLESYKALELKVEQIAQE LQQEKAADVLTN HLEYTLKT YIDTRMKNLAAMEILKEMRH VDSVRFKGLSDAIQVLG
8236	38604	A	8291	1	325	
8237	38605	A	8292	1	593	
8238	38606	A	8293	1	2013	

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8239	38607	A	8294	2	1427	LLARGAGRTNPAPPLMSCGPW GKFLKCCVEYKSGPYKVQ*EEI TIHSRAEAESTYQIKYEELQTLA GKHGDDLRCAT/T/EISEMNQNI SRLQAETEGKKGQASLEAAIA DAEQWGELAIKDANTKLESELE AAMQRAKQDMA/RQLGEYQK LALDIEIATYRKLLGEESRLES GMQNVSIHKKTTSGYAGAPARI VSLLQNELLSLEVGVKLGHPPTG KGEELGAPYSECSFGLCRRTVM LTQAPSSVVRNRSNRNHTVNSG GSCLSASTVAIPAINDSAAAMSA CSTISAQKRTCTACEPARKYK DTASHQEPACVQACQLETADP KGGGVLLALPQPPSPGMLCWPY CRAHATDYFLANFFSEFPCHFL HRAGAAQTATGDMEHGQS RELPKRKAPREESETSEEKSPNK WGPVSKQKKQLLVILTTIIRPT RGNAYTGLSTRKWPRSEENA LMQPNKKDEKGLTLQKLGL
8240	38608	A	8295	301	462	
8241	38609	A	8296	2	825	YPPSPPGRSAAHVSCTLYRTTP* WPDQRSAPPTAAWAS*SPSAR RRPSAESMVPREPL*YRPSAATS AATPAISPARALGAGAPCPLFR RRSGPFGRTSAIRPPSSAGKAVL FPPHGRPVWPVGRRLARYATAS GWGAHI*ASSGASE/PAVVSVLP AGSGASPFHSASWDPPAHPAAA ASAAAIVIPAL*RSGDRPPVLSFQ PLFWFLIRGDNVSFVWLLRGLP CPSQAVTTRHRSLQKEKLKRNR KSCVNFMQSQVSVSKYNSLVK HHHFCIRPL
8242	38610	A	8297	3	251	
8243	38611	A	8298	208	307	
8244	38612	C	8299	18	197	
8245	38613	A	8300	1	1866	

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8246	38614	A	8301	2	2558	FEVLWSDSSITSVTKSSSEVTEFI SKLCLQYPEENLEKLIPLAGPD AFYVERNHVLDLSGLRYLASLP SHVLKNDHVRRFLSTSSPPQQL QSPSPGNPSLSKVGTVMGVSGR PVCGVAGIPSSQSGAQHHGQHP AGSAAPLPHCSHAGSAGSALA YRTQMDTSPAILMPSLQTPQT QEONGILDWLRKRLRLHKYYPV FKQLSMEKFLSLTEEDLNKFES LTMGAKKKLKTQLEKEKSE RRCLNPSAPPLVTSSGVARVPPT SHVGPVQSGRGSAAELRVEV EQPHHQLPREGSSSEYSSSSSP MGVQAREESSDSAENDRRVEI HLESSDKEKPVMLLNHFTSSA RPTAQVLPVQNEASSNPSGHHP LPPQMLSAASHITPIRMLNSVH KPERGSADMKLLSSSVHLLSL EERNKGSGPRSSMKVDSFGSA MMDVLPASAPHQPVQVLSGLS ESSMSPTVSFGPRTKVVHAST LDRVLKTAQQPALVVESTAA TGTPSTVLHAARPIKLLSSSV PADSAISGQTS CPNNVQISVPPA IINPRTALYTANTKVAFSAMSS MPMGPLQGGFCANSNTASPSR HPSTSFANMATMPSCPAPSSSP ALSSVPESFYSSSGGGSTGNI PASNPNIHHHHHHHQPPAPPQP APPPPGCIVCTSCGCSGCSGSSG LTVSYANYFQHPFGSPSVTFPF
8247	38615	A	8302	2	266	YCGPL*SVWVARNPPGFAFVEF EDPRDAAGV*ELDGR TLCG/ PSWGHPR*DDYCRRGLPPRRRP PRRRNLSCSRSLYSPWTLSL
8248	38616	A	8303	37	535	ESWLVLGRRKAGRLIGACGFEP PHFLTLDLEMRDSCPL\CKV YVGNLGNNGNKTelerAFGY GPLRSVWVARNPPGFAFVEFED PRDAADA VREL DGR TLIGC/RV REELSNGEKKK/SRNRGPPPS/W GRPPSENDNRKEESFPFR/RRSP R/RRSFS/RSRSRLF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=?possible nucleotide deletion, \=?possible nucleotide insertion)
8249	38617	A	8304	2	668	EIAERRITQPAP ¹ GPSRSPSGPGA GELGGPGTGRALCPADNGGLC CGCPLAVP/GPLAVPR/ALKPQR TSLSHPTSVTNGRGVSQGPGR RHPGLPTQASTKPPQSRDDAA LGGAGRGPGSMAAARTPRGG GH*GVDGPGRPRDASRLGRL RPRSADPVPG*P/PVAIGRDLPS PDDNGQR*GAWKVSE/CPERR RVERLAAIGRLVFILPDFAVGRE
8250	38618	C	8305	101	183	
8251	38619	A	8307	329	399	RERET*SSINTTFIPGSVLQPDAS PSKTGTLT ¹ SIPVTIPENTSQSQVI GTEGGKNASTATSRSYSSIIIP GVIALIVITLSVFLVGLYRMC WKAHPGTPENGNDQPQSDKES VKI.FTGKTISHESGEHSA*GK
8252	38620	A	8308	192	537	KFPSTPENGNDQ* ¹ PQSDKESV KLLTVKTISHESVILNQNMDEI TEIEFRIWMAMKITENQKIETHS EESEEFNKTIQGMKYEIALRKN KDTLTELKNSPQEFHNTLEVL TAE
8253	38621	A	8309	1	789	
8254	38622	A	8310	1	423	EDIWFDDVDPADIEAAIGPEAA KIARKQLGQSEGSVLSLVKEQ AFAGEELEVVQKEVAEMLKG RILVGHALHNDLKVLFLDHPKK KIRDTQKYKPFKSQVKSGRPSL RLLEKILGLQVQQAIEHCSIQD AQAAAMRLYVM
8255	38623	A	8311	1	1077	MGKAKVPASKRAPSSPAKPG PVKTLTRKKNKKKRFRWKS REVSKKPSGPGAVVRPPKAP DFSQNWKALQEMGSKKKPKII QQNKKETSPQVKGEMPAGKD QEASRGSVPSGSKMDRRAPVPR TKASGTEHNKKGTKERTNGDI VPERGDIEHKKRKA/GQPQPH PPR/DIWFDDVDPADIEAAIGPE AAKIARKHLTRALALDCMVG VGPKGEESMAARVSVNQYVK CVYDKYVKPTEPVTDYRTAVS GIRPENLKQGEELVVQKEVAE MLKGRLVGHALHNDLKVLFL DHPKKKIRDTQKYKPFKSQVKI QDAQAAMRLYVMVKKEWES MARDRRLLTAPDHCSDDA
8256	38624	A	8312	3	640	

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8257	38625	A	8313	1	1274	MGKAKVPASKRAPSSPVAKPG PVKTLTRKKNNKKRFRWKS REVSKKPASGPGAVVRPPKAP DFSQNWKALQEMGSKKKPKII QQNKKETSPQVKGEEMPAGKD QEASRGSVSPGSKMDRRAPVPR TKASGTEHNKKGTKERTNGDI VPERGDIEHKKRKA\GQPPH PPR/IDIWDDVDPADIEAIGPE AAKIARKQLGQSEGSVSLSLVK E\QAFGLTRALALDCEMVGV GPKGEESMAARVSIVNQYKGC VYDKYVKPTEPVTDYRTAVSGI RPENLKQGEELVVQKEVAEM LKGRILVGHALHNDLKVLFLD HPKKKIRD\TKYKPFKSQVKS RPSRLRLSEKILGLVQQAHC SIQDAQAAN*GCYVMVKEGVG RAWPETGAPCLTASRPLQ*RRL SSPALLAACPPRLQRC
8258	38626	A	8314	2	414	
8259	38627	A	8315	1	621	
8260	38628	A	8316	1	885	MGEKPGPILLFSSAKPKNPQEGE HKDEGDHPNNSFSPCSAHDHRR LQKHFAKIRDSTSGGKMKVN GAPREDARPVNKGTYLVSTGG QTVAFITGSDQDDSESLGC QEDSTALHPTSTSPGSETVPPS LLPEATKRLLSLDFESFGQTQR NLSCPLCPAGVWQEKTLCEWR DAGGNRQAGVPQAPCMKSN ALIVILGTVTLDAVGIGLVMPV LPG/SPALLQRQAEEPSGRRTQG /RRVTPTTASAPVAPMTAGAC RSTSPKFETGAPVGAR*RSMGR PGRMPGL*IKAPTWCPOVGRLL PSLLAPGKTKTQSPA/SGCQEDS TALHPTSTSPGSETVPPSLPE ATKRLLSLDFESFGQTQRNLSC PLCPAGVWQEKTLCEWRDAGG NRQAGVPQAPCMKSNALIVIL GTVTLDAVGIGLVMPVLPGLLR DIVHSDSIASHYGVLLALYALM QFLCAPVLGALSDRFGRPVLL ASLLGATIDYAIMATPVLLWY
8261	38629	A	8317	1	396	

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8262	38630	A	8318	186	2123	CPAHCWQEAMLSAWRLVMSP GGPCTQHPAPACHPSVLTTPRK AGEPRP*WPPCPAWGLADSSK PHRWPKPPASCRPLVRRPWGP QRTLTPTLTSHWRASIR*SWNW TPSSCFPQGLGAPRLSWPRAPC Q*ERRRNLKPWT*STSR*PPDQ GATMAPSTAPAPLSRPSAPFA VVASSFPETSPERHEAAVRASS LGTRAGGTSALCPQVRVSP/HRP PNSPSISIPCMGSKASSPHGLGSP LVASPRLEKRLGGLAPQRGSRI SVLSASPVSDVSVMFGRTPHSP PLAKEHIAVAAPHSPPTPWWTY PLC*STAAQN/RGSSPPQRTPGH QNSVQPGAASPSNPCPATRSNS QTLSDAPFTTCPEGPARDMQPT MKFVMDTSKYWFKPNITREQG CPGGA VSI DSRIVPAIELLRKE EPGAFVIRDSSSYRGSGFLALK VQEVPAQAQRPGEDSNDLIRH FLIESSAKGVHLKGADDEEYPFG SLSAFVCQHSIMALALPCKLTIP QRGCHTLYLSSVSVELTGALA VQKAISTTFERDILPTPTVVHFK VTEQGITLTDVQRKVFFRRHYP LTLTRFCGMDPEQRKWQKYCK PSWIFGFVAKSQTEPQENVCHL FAEYDMVQPASQVIGLVLTALL QDAERM
8263	38631	A	8319	15	909	LHVSHPGHADARGGLLQPCAA PPLWLCRIQCPRWFQTPSQVF YHAATEHGKGDVYPGQCLWE GCEPFQRQRFSFITHLQAANC/ EAQ/RSTPRAQKAIVNHPSAAL MALRRGSRNLVFRDFTDEKEG PITKHRLTAALILKNIGYSEC GRSWPRASRYQQGHQDLFILRS DLPSQVFIRDKLMERRNRRTGR TEKARIWEVTDRTVRTWIGEA VAAAAADGVTFSVPVPIHIFR HSYAMHMLYAGIPLKVLSLM GHKSISSTEYTKVFALDVAAR HRVQFAMPESDAVAMLKQLS

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8264	38632	A	8320	189	4419	KPGLFP*RVY*EYVFRLSQSLGE FHQF*FKRGQY/ATTSPPSPW ANIIRKATRC*CRWRFRFIMPV MASMSA/GMLNELQQYCDWE QGGAAVVAQHVAAPPGIVEIDS EKFACQWLNHAEVFNPDSCVS RAEMYSEYLSCKSLARGGILT STGFYKCLRTVFPNHTVKRVED SSNGQAHIHVVGVKRRAIPLPI QMYYQQQPVSTSVVRVDSVPD VSPAPSPAGIPHGSQTIGNHFQR TPVANQSSNLTA
8265	38633	A	8321	27	674	GPQNTMPMPSPSVRVQGPQNSS QPSPFSGSSQPGDPMRKPNQNF MCLWQSCCKWFQTPSQVFYHA ATEHGGKDVYPGQCLWEGCEP FQRQRFSPITHLQDKHCSKDAL LAGLKQDEPGQAGSQSKSTKQ PTVGGTSTPRAQKAIVNHPSA ALMALRRGSRNLVFRDFTDEK EGPIITKHTPTNSCP*Y*KISGKY SECGSADWLKETMENNLSA
8266	38634	A	8322	16	341	PPGRGSAHPAARQLQTPGSAAP LS*HQGPASRGTPGPGPIKARAP SKSRARGLRAAQRARLSARAR AGCA/PP*ARGAARKLGAPGTF QETLPPGTRDRKCCSGDAVVH
8267	38635	A	8323	1	400	MAEGMAMLRWTRLGTWPDDS FDEMDSTLAVQQYTQQNIR/AQ DCSNTDKNLEPPEGQDADCHG F*APRWHCASASYVASSEFAGDD RRI*IPLDPWVKKFCECWCSGPT PFRE/CPRELN*HLKDGCSCRYL RARN
8268	38636	A	8324	3	179	ISWPSPLLQGTAAALCANGAGP AGTPPGRGPVSARFGRGGAAC VCSPPSPPLAPLSR*RFVVMW WQEA*RRGPRLPLLSLPAAG SGRAAAAAELPGGRAGAR/P L/LLTPAQVQGESARG/AGAEG GRGTPG/GCPLPAGRSLCQPIG PRSPPTAALCANGAGPAGTTP GRGPVSARFGRGGAACVCSPPS PSPLAPLSR

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8269	38637	A	8325	1	1744	DFQERLSMKDQLIAQSLLLEKQQ IYLEMAEMGGLEDLPQPRGLFR GGDPSETLQGELILKSAMSEIEG IQSLICRRRLGSAANGQAEDGGSST GPPRAETFAGYDCTNSPTKIV EAPGTES/DPRLPTVLESELVQRI QTLSQLLNLQAVIAHQDSYV ETQRAAIQEREKQFRL/QSTRGN LLEQERQRNF/EKQREERAAL EKLQSQL/RHEQQRWERERQW QH/Q/ELERAGARLQEREGEAR/ QLRERLEQERAELERQ/RQAYQ HDLERLREAQRAAQPPS/HPPSF NGEGLEGPRVSM/PSGVGPEY AERPEVAR/RDSAPTENRLAKS DVPI/QLSATNQFQRQAAVQQ/ QIPTKIAASTKGGKD/KGGKSR GSQRWESS/A*AGPPLRLGLEG ATGQALAAAGSQEIRDTCAILW RGNQKAQLASWLRPPHTGPVW SPGPKLR*STLHLLTSTLKTGV WGPALERARARRQRSLATWD QHSRTGTASFDLKQQLLNK/L MGKDESTSRNRRSLSPCTCGRH SPAPPPDPGFP/APSPPPADSPSE GFSLK/AGGTALLPGPPAPSPLP/ ATPLSAKEDASKEDVIFSKRAV TQANH
8270	38638	A	8326	147	536	WAQEGSGRNTHQYQKILDVML KGLFKVCAGRGQLMAGPVFDL GTDG*TGVLQKDG/WSALRPV LRTTRSSLAAPSLF/YFDFHNS NWNLLIRWGISFCNQGTGVFNQ GPHSPILSLVRTGVEVAREPSVG
8271	38639	A	8327	59	339	
8272	38640	A	8328	43	510	LLLWGLRELTIMVEDEGEQM SIWVLDKDLGAPHLVLVGSML TARSRCWTPWRSSSHATAATSE GEGWGVGVLIADRPGWASDEG DGEAGGGGLLTSAEFGELAAV GEAGSAHPMFSPRPRYSTWCLT HIGQGGLELTL*STRSASQSAG VTGMSH
8273	38641	A	8329	98	493	FFYFLFIYFFETESRSVTLAGVQ WYDLCSLQLPRLKRFCSLSLP SSWDYRHPPPHPANFCSFLVVT GFHHLGQAGLELLTS*/SIPSSAS QSAGITGVSHHARPGPLSLANN PRSQTRTSATVCPEQLGLD

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8274	38642	A	8330	3	328	HSAARRPSSRRSSPRPETSANS VNAGWNQDPHTHIVIRFMSMAT AGSTRYR*GLHAAPSPPHPRRP RSPPGAE*A/RREARSLKR*SPPC HPTKKATMCRCIIVPLIJK
8275	38643	A	8331	24	593	FEQQWGWAAAAAPPKKAHTR *TGRSPHRPHRTQPR*NPSGTA APGPVPS*AGSSH*AGSG*RAW GPGSSRR*RSCT*RLRSRGRPPR *GPSRR*VRSARPSRA*RAPPGS HRPGCGAAAPAPAAAPARAP WAGADSSAPPTAD*SLPTRVC CSLSALHTGESGDLGPGTQIEG KQNYSVTVWFLAR
8276	38644	A	8332	24	832	FEQQWGWAAAA/CSSRQSTYSL RTGRSPHRPHRTQPR*NPSGTA APGPVPS*AGSSH*AGSG*RAW GPGSSRR*RSCT*RLRSRGR/TS MRAFSPLSAIRSPKSGRDAHHQ ASHRP CGAAAPAPAAAPARAP APWAGADSKRASSYSRLEV LK VIPEAAA WTSAGSFRT*/PENLPI PVNEIMLLSNCPGRMGSVPLKR RLILGVRVLGERGPGIAWCTCG PPTSMCTGALDLVSWAGRGMP WASQRR/PQGRDRVRDKPGTCFL PSAVPVLPCV
8277	38645	C	8333	153	269	
8278	38646	A	8334	615	1275	QKRKTFNTTKCYNKEKGSWPR WPTGSS*CAQLSWRGMEGTSK YRTE/ILKHGQEIPS/EPTPPGP/S SLTCRA TWLSRAAPQPHMKPR EP*ILSIYVAPSPSTIEKPSIGERF AIFITLLMRNGDLGEASCDV K ALRQPWVGKAQVEKNQLSQT KC PAMWHFESQNPALLIVRECLEG WKAYPQSTKEERLLHPEEGAG FTSSSQEKYVRVRGQRLWPTPF FSLQMDRKRHLIPPVVIKKR GVGQDGRLEAVSVHSHGEEW KGQVNTPEPSTTSRSGDPI MNP LHQGLKSDMQSYMESQSSPS ATHEAQGALDTQASWKKQQQ LRKSRAISSPADGVQHGHGA RHCHDVLKRDRQTSWPCKMSS LAEEVVAADTWLLDNGT MQA TGRAAQVREQGKGMDLGQYIS CYLMTLSRAIKQKENKKVCFQ RLGKPRVKTASVQKK

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8279	38647	A	8335	423	998	PPSAVPHDHSSPART*PQSLSVI TAELEPVRAPSLIAFFHGSAC MCPFRWRYSRFSLKQQRILAH PVNTFGIDRRHTIKFCLSAKQRP YPTITIRWQLSDNMVYTEKHRI ISVTTAAAIHPVIGSFPIPG/PIRA RALSTFLPVHIQRL*GVHFPSF SCRAGAGVL*SASWRQQVQRQ EQPVLRRRQQ
8280	38648	A	8336	2	218	HPSPSPGLKHRSSLSGV/PNPLL LPSGFSLLPAGHSHGDGPSAS QMH*FQNQTHPVP*PDPASLPA VQSHQ
8281	38649	A	8337	76	129	
8282	38650	C	8338	1	410	
8283	38651	A	8339	651	741	
8284	38652	A	8340	1	612	
8285	38653	C	8341	1	729	
8286	38654	B	8342	1	313	
8287	38655	A	8343	705	990	TRSSCWGKEASLGDGNGRVVA ALHHFTGAAARQHSGSPLERGP HPQL*SPRS*VEGHWLEI/LQA* S*VLPQKQPHQPARCWQLLSH WLPRLALLC
8288	38656	B	8344	1	588	
8289	38657	A	8345	220	678	MNAIPVASPCMVCSLIVHVLGS RPM*PW*RPPTRFQWSEVQE/V MELTTMRPQPPPPPPPP*QQ QQQQQQQQQQE*L*LAATPR APGTLAQGSLTPSQIFSA*RLKT DAAGSP/GSPQTITDAELRVTLT VEGKSVFVAVLPQSFTDSPH
8290	38658	C	8346	1	411	
8291	38659	C	8347	1	534	
8292	38660	B	8348	1	774	
8293	38661	B	8349	1	705	
8294	38662	A	8350	1	297	MPGHQKAPLRPAVSKK/ESMLE KGKIK*LLKPEGILPISEPPSNRIF ACWGKPAWTACCNLRARR*R AISCCPSHW*KEKPPWRPIRKPP LPARWPIH
8295	38663	A	8351	616	988	DPQLQAGSGHIPGRNVCPGERI CWRGTPD/SDPSTPTY*PPLEKE VAQGRDLIHASGLWS*IPLEA LQGPQGCQFQVCCIPVIPTVE MKQGRQQLASDFQDQDLEFY EILSWKGILIIIP

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8296	38664	A	8352	1	1668	MELVPEEATAVSARAYTGRWP LDAAARTILVTPAGVGHNTIVL CGQASLDAYIKSICLKEGRKE GKKKGRRKRRDKYGGKEKK RKKGRKKGRKKKEKKKKEREK ERRKEEKEGGKKRKEKERKKE KERKKLSIGKGVVYCLSSNTQK KQVSQTKIRVISTILFILAGCIVF VTIPAVIFKYIEGWTALESIYFV VVTLLTVGFGDFVAAHPSDHL CWVIVTCKGKYLDPSPQEKAT DFSGVAQKRNEPQKPLIWC/W ELRSYPTALMMQERVV*KEKP KAAAPNRRGLGTEKLEF*R*EV AAAVEPHAVLSMIGDWLRVLS KKTKEE/VCRPPLFKSPSNLRL LGVAAHVGEIKAHAAEWKAN VTAEFRETRRRRLSVEIHDKLQR AATIRSMERRRLGLDQRAHSLD MLSPEKRSVFAALDTGRFKASS QESINNRPNLRLKGPEQLNKH GGASEDNINKFGSTSRLLTKR KNKDLKKTLPEVDVQKIYKTRFN YSLDEEKKEEETKMCNSDNSS TAMLTDCIQQAELENGMIPTD TKDREPENNLSLEDNRN
8297	38665	A	8353	1	418	
8298	38666	A	8354	251	394	GAQVPTLLVGVLTVTISTVQNL AISLLGKAK*GEGILSVSGRMY RVL
8299	38667	A	8355	107	250	EEGHLLDPRMVDPMMACTM QLEKLQTLNASL*KQLGGGLYL AKPQG
8300	38668	A	8356	331	893	SITENCENKNIPHVENKDIGTK YNSLKLPEHIRAEVMPQSKLD* VNP/LPSTCKERFVMQSHLART VGSSICNL*MSP/CFGIW*QLAE ANPAKCFP/GCWTNSCTSSML CSKYVTPNGTVV*ITREGPISDD SILRFLLSMETKRMQGLLVSTA QPKGHQSSYQLHKRGPEHIERS SSQPPVAAFGIH
8301	38669	A	8357	2	416	SGFRYGSDIVPFSKVDEEQMKY KSEGKCFSVLGFCKSSQVQRRF FMGNQVLK'PFMEDLRQYMFSS LKNSKKYAPTEAQLNAADALI DSMSLAKKDEKDTLEDLPFTT KIPNPRFQRLFQCLLHRAHPL PLPSIQQ
8302	38670	A	8358	1	2130	
8303	38671	A	8359	1	1152	

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8304	38672	A	8360	1	320	FKGTAAPWPLSFARAAAGRQA GTDTRPSLRVRFPREARSQKQ RGRSVRLSAKSPPAKVETKPSG GSRTA*IFRQRSKQGMGAKG KQAKWLLILRALICFSLSER
8305	38673	B	8361	1	1231	
8306	38674	A	8362	1	2276	GGRPKRLRTGNMVRSGNKA VLCMDVGFMTMSNPISGIESP FEQAKKVITMFVQRQVFAENK DEIALVLFGTDTGTDNPLSGDQ YQNI TVHRLHMLPDLLEDIES KIQPGSQQADFLDALIVSMDV IQHETIGKKFEKRHIEIFTDL SSRFKSKSLDIIHSLKKCDIS LQFFLPFSLGKEDSGDRGDGP FRLGGHGPSFPLKGITEQQKE GLEIVKMVMISLEGEDGLDEI YSFSESRLKLCVFKKIERHS IHWPCRLTIGSNLSIRIAAY KSILQERVKKTWTVVDAKT LKKEDIQKETVYCLNDDDETE VLKEDIQGFYRYSIDIVPFSK VDEEQMKYKSEGKCFSLVGF CKSSQVQRRFFMGNQVLKVF AARDDEAAAVALSLLIHALD LDMVAIVRYAYDKRANPQVG VAFPHIKHNYECLVYVQLPF MEDLRQYMFSSSLKNSKKA YAPTR/EAQLNAV DALIDSM SLAKKDEEGQTPLKDLFP TTKIPNPSIFRGLFQCLL AQELLHPR/EA FYPPISGR HIWEYAGILPAEGGQRKSSG FPLS*N*RTLFFL*FEAKE KGFKWTAQGI FQGPWKVG PTAKKLTGARG EPTFSV SSLAEGSVTSVGSVNPA ENFRVLVKQKASFEEAS NQLI NHIEQFLDTNETPY FMKSIDCIR AFREEAIKF SEQRFNFLKAL QEKVEIK QLNHFWI VQDGIT

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8307	38675	A	8363	624	1992	GRKVVVVLPPLGNQSTPGGIC LSAQLPL*RD**SASARCSSPGS *TSPPSYFLDPDRGPGRALQRFS RSPSSPGGNPAISAAAPSRKLL GPPGAAAATAAAAGAKPELRH RLPPSSATTASRVRACHFLLAS AAATPAFSPPPPPPASPSQRT KEVQRAGKAAESCPAAPELLGF GGSRDSAGELGGLSSDACV/PD SSEPGVRRPARRRTLALHALTHA STHRTLPGSCARVAVPVALCK GGFT*PIFSPQYVTNTYPGEEGA RLGVLGREQTVSAILLGGSRSK APTITTVASASAPPVTAAGRITP HASIRIPRMLSKSPPPQAL*K GVMAQAQCPPARRGQAGLEGT VFGKSPTRPHQLTAASSPCNGL IRIRQGQGGGKRRWRGSSGDP GAWYCFRGRRRGSPCPSLRTAT LIPGLGGHGGSGDAASPLLGT RDGGPEAHLGKE
8308	38676	A	8364	123	248	
8309	38677	A	8365	1	540	MLEALGALNKPESSRLPIPELHL ASTAAANLGEHPNQRLKFAS QETPEESANAVPHYHKL CNRVS HVWGNRRQGHIRNTMDNRP/ GKTTFV*IIVSLPALLALTHSW DSQVRPAVL/QP/YSHTGTGP*W RSSSPCAASST*KSPYP*CH*QR LSQSPSA/FRPTLRRLSRSTRCRS WRRK

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8310	38678	A	8366	31	1429	RETRSCWAHYHAESSKHQKAK LKDSRKARRSIELIGPGSSQKGG DICSLIHLSSKLGILCYSKTGNM GGWEGGMQLRVSSSENSMGKSS RERAAADLPQGSWCWHELPGRLI NTRISLKRPHVWNLSVLCQV KKVKSQMFMHPITSAMQGD RLGICVTQFDPKLLERGLVCAP ESLHTVHAALISVEKIPYFRGPL QTKAKFHITVGHETVMGRMLMF FSPAPDNFDQEPILDSFNFSQY LFQEQLSKDLTPAVTDNDEA DKKAGQATEGHCPRQQWALV EFEKPV/YLPSAVPGDWLQAR GHS/PNTCLRAFHGQSCSTG*RT GTTPATASCPG*RCTS*STSMGLV ERAMDDYSVIGRSLFKKETNIQ LFVGLKVHLSTGELGIIDSAFGQ SGKFKIHIPGGLSPESKDKDPTD PSKTGPGWVPVGGQPGRRRSPSG ANPHKMGWLTRPFKRYVFDTH KRMVQSP
8311	38679	A	8367	3	119	RSPREGGHRGPSSGGGRCRRR PGWAGNEAM*PDRRARVVGIE VPAEEGGAAVAQDGLGMKR CSLLRDL
8312	38680	A	8368	3	389	SFATHTAGPQPPAA/PAPKRMA ARASWGRNPPRAPVRTSAAAA RAAGTRRPAPARVACPLPAGPG SPRRPPRAARTRRARRRPGPGR AAQQSAGRRWTPPAPAPSGASF AAPAAGSASPSSHRRAPGGGS TQSSLLSPSSALHSSPPSRPWA ARHERSSWS*/PRSALEPTSTEP/ GPGPRRAPVLGTRSCGRGAGQL E*EA*GAA*APPPLGWTP*LLCV HVTLGNAVSHVSCGAAPPHG GVGVGYRARSREGGHRVPA/ RTREVPSPRMGWNEAM*PFK* VSSRWPLRLPSRGMAAPRGA AAGGARRVEGWEGASLLSGSA PGSARWPRAAPASQVVGAR AAGAPCLPRVWRRGAVGAE NAPSELAASTPAG/GGRGAGSG SSDLAARGGAVAAFPFG*GHSR QQHGAEKDGGQGLGSQPPPR SCAHQRRRGACSGNAAPSSAR RMSASSRSRQPEKATQSRNSA RSSAARPRSRSTAVSRAQVDTA SSCAFWRVFCSSCRFFCESAEP TVSTRWW

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8313	38681	A	8369	3	1130	LDFQHINYKAMRKLKQVQE QCPNITRIYSIGKSYQGLKLYV MEMSDKPGEHE/LGYWHGEW GEVGTGGQPRHEPAASPHVSPG EPEVRYVAGMHGNEALGRELL LLLMQFLCHEFLRGNPRVTRL SEMRIHLLPSMNPDPGEIAYHR GSELVGWAEGRWNNQSIDLNH NFADLNTPLWEAQDDGKVPHI VPNHLLPLPTYYTLPNATVSILR AAVEVLWGADPCLCLLPLLTCP IQVAPETRAVIKWMKRIPVLS ANLHGELVVSYPFDMTRTPW AARELTPTDDAVFRWLSTVY AGSNLAMQDTSRRPCHSQDFS VHGNIINGADWHTVPGSMNDF SYLHTNCFEVTVELFCDMFPH ENELPHEWENTDA
8314	38682	A	8370	1	2229	MWGLLLALAAFAVGPALGA PRNSVLGLAQPGTTKVPGSTPA LHSSPAQPPAETANGTSEQHVR IRVIKKKKVIMKKRKLTLTRP TPLVTAGPLVPTPAGTLDPAE KQETGCPPLGLESRLVSDSRL ASSSQSFGLGPHRGRNLNQSGLE DGDLYDGAWCAEEQDADPWF QVDAGHPTRFSGVITQGRNSV WRYDWVTSYKVFQSNDSRTW WGSRNHSSGMDA VFPA NSDPE TPVLNLLPEPQVARFIRLLPQT WLQGGAPCLRAEILACPVS DPN DLFLEAPASGSSDPLDFQHHNY KAMRKLKQVQE QCPNITRIY/ RIGKSYQGLKVYVVEMSDKPG EHELGEPEVRYVAGMHGNEAL GRELLLLLMQFLCHEFLR/GNP RVTRLLEMERIFLLPSMNPDPGY EIALH'RSS*LVGLSEGRWNNQS IDLNNFADLNTPLWEAQDDG KVPHIVPNHLLPLPTYYTL PNA TVAPETRAVIKWMKRIPVLSA NLHGELVVSYPFDMTRTPWA ARELTPTDDAVFRWLSTVYA GSNLA MQDTSRRPCHSQDFS/L NGNIINGA/DWHTVPG'SMNDFS YLHTNCFEVTVELSCDKFPPEE* ICPKEWEWNNKDALLTYLEQVR MGIAGVVRDKDTLGIADAVIA VDGINHDVTTALGPGIWRLA* PPGDYIMVDLPSSEGYHSVTRN

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8315	38683	A	8372	409	517	HFRSAGVCW*PPPLSVHGPR*H FRSAGVCWSSTDPVCLGITSR GCRTAKIAAFSL
8316	38684	A	8373	957	1230	
8317	38685	A	8374	1	2658	MVEEVLDDNILKSVFRLGSILPI TFSFPDSQGPLLQVCRSLLEIH SRPCLPGYHQWRLQNSKDCCL FLPLEASSQRGTCQMPAGALFY KVSVDPPFWEVSSQETWGSIGIH LRRQSVPYQSSSAVLGDLFFSS EPACKNKSAAEAVPTAAPSPRDA LSREESREAVWPQLSHAPM GSAQLELPGGFVYTVRRKLPTQ ASVMLDAPPATKLEHPRSSSDC CVGSKNFKPVDLSLLGSMGVG SVELDHLAPWLQPPFQESERFC LSGVVPSPPLSEEINHALPKATV MASLGAVARKDNADSLHVPPP TPLFASRPVTALKYWQAPREDL QPFTRTLHWGKGNDQTFWGL VDTSELTLTPNDPKHHYGPIK VGAYGGQVINGVFAHIQLRVN PMGHWTRPLVIFPVPERKISIDI LSSWQNHIGSLIGRKTGDSWR MTVGVRKLNQVVTPIAAAVPD VVMLEQINPSECECLKMSHQI TMRPELPIMNVWLSDPSSHEL G YAQQHFIIKWKWYICDRAPAGS ESTTSPFITQWVHEQSGYGDRD GGYTWAQQHRLPLTKNDLAM AT/AECPISQQ/QRPTLS*HGV/I PRGDQPATWVRVDYIAPLP SW KGQRRFFTRIDTYSYKFIYP PAP NASAKNTICGLMECLIHCHGIP HSIASDEGTHFIAKEVQQWAHA YRIHSWYHVPHPHPEGWGKVLQ
8318	38686	B	8375	1	3258	
8319	38687	A	8376	3	196	DWESCQNQC*PQQPRLHGTHW DPC*DME/CPSVCPCQSPCPLR DQWTIPCPDPLSPQIMAAAGR/W
8320	38688	A	8377	248	423	
8321	38689	A	8378	407	683	LSSYCVHAGCYPREAAARMISF SPSQIRWKPFGESWRPPARRGT CTPGAHPRPSPRAAGPAHRP/ PPP/PSSELPRAPQRPGRNRRPG NSGPV

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8322	38690	A	8379	11	888	TGKLHTSVICNSTELTSDWSRR LFLKGKPLLSAGAGVNVMPST APFPAPCKGSLRGNPSRPTH* RSPQLERDTGGASFRVDEGEER GASSGGSIRDTEGGSGAVPFGE SWRPPARRGTCTPGAHPRPSPS PRAAGPAHRP/PPP/PSSELPRAP Q/GPEAPTLGQPHGRGLFPPLFK LSKLYWPLGETRSRPRPRPYCQ SPGPGVTERGRWSAPRAPGAP RSPRWRRQSGPGALPRPRVNPC IQHGSEASYAPAL*WALRIPQG GNTSSADEPADFTPNQADQDM PCLHSCSG
8323	38691	A	8380	1	3135	
8324	38692	A	8381	44	2279	RQTVGDQAQPHHPPQPPRPSFP PPPALPCTAPAPQLPPSPCLREEF PSSPMGQTPGTWSSGGPWTSP PHSSSRRLASPLAPLSVIPSTSQ MARSSSQSTTRFSPTPTHSQQ ASQAGTLWPWWLRSGTMLTSP LVGGPHFIRNTRSMVNTAC*S SRPSLGLERSQTTGATRPGGP*R SRGSMPTPLPSGPGSATPTKPS SPRTGAGPMPCFSTRAVGCST WPSAQATRCWSASLVEMAISK TAH*CPSCQGRGIALIDS*IPTQA SKGCSSTGYTGKKGPTTVSSAC SG*RASLGGPAGAGTRSPALVP GSRDDGTYSNPSA*VAGASA VGSCAASPLGEEACAAATGPGE SFSEGWHEQ/TSLA VGP GTGAT ELVLPLEG/HSPTVPCTSRGGP TWAVATYRPPSPPGCSGPTSP PWMVSVTPSMGWGTSCWSGP KTGTPPSCFRAAPPRLAQRPPT SSPLRLST/ASSLGPVTQWLL EPHDAIRVLLDNQVTVFQPDHE DGGGQETFNATGVLLSRNGS/G SRPASTAGPPSR*SRSPSTSTPPP ASRPSTRTARRGSGSGITQRT TSQCPMAPPPQGALRRCFSTL E*PGRSTGQASLARGMTSCLPT SPLFSTHNCKKTAAGLNI*SPTV TEIAHASMTWPACTQASDFTR GKSVKTTSRTPPSISTRPPSMV VV*LKPTRGRPR*FSTPAMLRM

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hud	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
8325	38693	A	8382	1	2900	MVWGFTCS TTATLEGQSTAAS SRTSNQDISASSQNHQTKSTETT SKAQTDILTQMMTSTLTFSSPSV HNVMETVTQETAPPDEMITSFP SSVTNTLMMTSK TITMTTSTD TLGNTEETSTAGTESSTPVTSV SITAGQEGQSRRTS WRTSIQDTS ASSQNHWTRSTQTRESQSTSL THRTTSTPSFSVHNVTGTVSQ KTSPPGETATSSLCVNTNTSM TSEKIVTITSTGSLGNPGETSS VPVTGSLMP
8326	38694	A	8383	3	468	SSPPLGHP RPISQSCPRPAVSCSR GPSALLCRPLLGPEADP/P*GSS WP/EGPLWGPYPSPSVVGNH WSGAGVADE/PAAPSRPAGARR APSGGRPA AARCSRRRASRSSR PGPPAGRAGR*ACPAARSAVA AAPRPPGAP*CGSASSATAPAA APP
8327	38695	A	8384	3	1319	DSSRLCSRRSRGHTVGLWGQS PGLGTGKRGQGGG*EDPPPGTPR GQQDPSSSAKQ/PPAGLPAGVK WGFS\SSPPSPPP/PAKRELQGR PKFGRCS EGRAGDPGPS/GCPR AKQTHSLGTAVPVVVIYYPVH ALSPAANRTL N*NIISSQPLGTPP MVPGE*HGPRGHA*PRHPLK DPPQG/PAQR*RGCRSEVQRRP GTLP*GSPP/GNSHNGLPAMP *PPTAR/PQFPNPQDPRPLGQSSS EPLPRCPKTLCKTRHPDLRGRG KQPRGWAQVPPGEVFGGNGA QLEA*EGARMSASP*P*SLESD TTASPPSQGLFTAQKGLWGPQR RLGALWLGRRSEKTSWRRLLQ SQVYWSCREEVEKCSRQGARL GQRRGWENVLGKSGSASECLS CPFCASLAMPSCGPWELSKVA QCFPLKTGHGPQEGSNNLKV TQQS

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8328	38696	A	8385	1	771	HSLHSLTHSLSPVPVQSPA WLR PLCLSA PAT*ATA/CRVCLPGSC DSCSDSWQVDDCPESCCEPPCC APSCCAPAPCLTLVCTPVSCVSS PCCQAACEFSPCQSGCTSSCTPS CCQSSCQFACCTSSPCQACC VPVCKPVCCVPVCKKPVCKKP ICCVPVCSGASSCCQSSRQPA CCTTSCRPSSSVLLCRPVCRS TCCVPIPSCCAPASTCQPSCCRP ASCVSLLCRPTCSRLSSACCGLS SGQKSSC
8329	38697	A	8386	1	453	AQSLGRARPWRGASSGRVPDS\ RLE*TPTVCLA/PEHGIVAATAS LGTFFLTQWEGHNGCYQRS LFP PQSMPTPPCPASETP/PVFRYRPP PSPGSSPRSIHAHPVPLGSVSNP PHPEVWNLCTWKRLATSLQ KFTFGPKLGTINVDSDLS
8330	38698	A	8387	39	630	IGTWRFGGSDRQEGQSRQNC EANDWPVSTALA/KPRGATGK NKSPGNDPAAAIATAGAAATA GPGSPCSLQ/NRPHLLPFIS*APP EG*TPSTQDRPWYSAGAA*ASV KCRGTGAVQKQLL*NRRRFP GS PAPAQTADPGRGGGRGTGS/GV PSTGSSDWQERPWPCCGMEPP RLRCLLRCSGSIHSPTALQSLRN HQ
8331	38699	B	8388	1	2673	
8332	38700	A	8389	10	281	TTSDPYHPAPEIGLG*SPN/GGP MQGDLPGASGKEVSFL*GNVN EDIHNSGCVWQPSCDHLARQP KNKAVTMETKKRQKDTGSSLF SSSCS
8333	38701	A	8390	3	416	EYGGQCQCHKRPRGPFGFHSPG PRGGSYISDLSGQESPEAGGGFP PRISALRPKSNCSEFLRPRGRGS* YPAAGRPRAPGGPALQLSPR/PH PAAPP CRAAPQPKPPRRDVEPA P/PKLPHP/P/GGPAPRRQGDLP GRLQP

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8334	38702	A	8391	98	1286	TMPPTRFLAHLDPQAYVCFCCV EGKERNLSRSKHTSPHSSTPAH LLSKPPRSSEVVYHSQVLPGETP RPTSQLHLELVLPVFARLPGRH GIEREQSSPY/RRGHHRGYTEE D*VNS**DGVEPYGKVAAG PQRRGYCCPWRRQRHGRHR/ RRPPIALQRRQ/PARTPSARPPIA LQRRQ/QARTPSRPPIALQRRQ RHGRHRPRP/RHRSAEKTTART PSPRPPIALQRRQRHGRHRGH/ HRSAEKTTARTPSRPPIALQRR QRHGRHRPRPPIALQRRQRHGR HRPRPPIALQRRQRHGRHRPW PIALQRRQRHGRHRPWPPITLQ RT*RHRCHRHGHL/PLQRT*Q HGCHRPWPPIALQRT*/PAWTP AMATHRSTKKITAWTPSRPPI ALQRT
8335	38703	B	8392	128	457	
8336	38704	A	8393	348	1355	GNEGKAGTSSCWDPKPAAPAV ASSLAS*GASNSTPSAAGSTVA SASWLVEWSPGVT/VGVTEG SSKLGPMLLSTSTPDEAWSPSS CLLLVAPGVWLLPEAGFLLGIH SQGAAPPSPSSCFSTSSFLSS SSSSSSSLPMATPCDLGFSKCG SRLSPPAKALLEDALTPRGA* AWMRDRASIGDPVWLCPSLP SSFLCFLKAVCTSSA/PPCYTT GFLSPTQKTKPSKQGLGVCSSQ VSRHPALGQLLQDIAEDKSPPH SGSTICSLWLSSSRAPCDRCTSR PSSKVQGYLCQQDSRSRTRAG WKTPTVVGRHVPVKIEKESIRP ANFG
8337	38705	C	8394	154	219	

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8338	38706	A	8395	3	1054	LYLKVCYI*KELFEFSNLYKHPS GEEVWERILRV*DNGGRN\KLI YQAEFIDLGPVSRDSAFNVAAG GVKKGSRNRLFPLAEI\WTRWP TVSELEMPDLPWFNVVEEIKRL REIGMVVEWISHFRCTHPSWKGP EDIPLTNALQNRVRAAPASLK SLVIALFCMSDATAAGTAVTQL QNLNTMGIIIGSRGVDRDQVVAL NHQRQVGVANRQGTPT/QRGT KKRTR*PGQAKRPGPKERGTRS HAYAHTSVTTPKNNRHDTRPS QRTPQQRDAQHQTETPNTTP NTSRPPSHVSFFRSKKRRRRPQ HIEERNKRTRTEEEARERNRAN KDDTKRQPPKKTRENRRLWS
8339	38707	A	8396	140	398	
8340	38708	B	8397	15	192	
8341	38709	A	8398	1	1167	AGTARRAPESSRRRAVAAGHPE TMGKLVALVLLGVLSLVGEM FLAFREVRNASREVEPV\EPENC HLIEEESGSEDIDILPSGLAFISS GLKYPGMPNFAPDEPGKIFLMD LNEQNPRQALEISGGFDKELF NPHGISIFIDKDNVTYLYVVNH PHMEVHCGRIF*ILREQRSSGY YLUKTIKTWNFFKSVNDIVVLGP EQFYATRDHYFTNSLLSFFEMI L\DLRWTYVLFYR\PREVK\VVA KGFCSA\NGITVLSQTQKYVY VADVAA\KNIHIMEKHNDWDL TQLKVIQLGTLVDNLTVDPAT GDI\LAGCHPNPMKLLNYPED PP\GSEVLRQ\NVLSSEPRVSTG YANNGSVLQGTI.WASVYHGK ILIGTVFHKTLCYEL

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8342	38710	A	8399	89	1685	KGPLLLSLPCRAGAMAETSAT GACGEAMAAEAGSSGPAGLTL GRSFNRYRPFEPQAFGASSPS(WA RLDGAFGSNERAEGCKVPQEG RLLKLLAGLTRPADVRPPILGRG LVGGQEEASQEAGLPAGAGPS PTFPALGIGMDSCVIPLRHGGLS LVQTTDFFYPLVEDPYMMGRIA CANVLSLYAMGITECDNMLM LLSVSQSMSEEREKVTPLMVK GFRDAAEEGGTAVTVGGTVVN PWDLLIGGVATCSIANQFEFI(M PDSAVVGDVLVLTKPFRNPGL LFNAHQWLG*FLERWD*S*RW WFSREEVELAYQEA\MFNMA TLNQNCRRV*MHTFNAHAATD ITGFGVLGHSQNLAKQQRNEV SFVIHNLPIIAKMAAVSKRASGT VWGGFGGTS\A\ETSGGITGFCPLP R\EQGGLAFCS\EIQILPKYGRGS PKAWIIVGIVEKGNRTAPDPLTS PRVIEVLPRGATAA\VLAP\SS NALLLSLAREIERTEVVWTLEP LSTITDGSQELIVKKFPKKAACI VVPAAALSR

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8343	38711	A	8400	30	2391	ARGRPLLAARSSRRCGPRLPFK RAGPAPAAPHRGDQEARWFSG AAPSRLLPPAPRFSGPAAIFLSAQ GPPSGAMQPTLLLSLLGAVGLA AVNSMPVDNRNHNEGMVTRCI IEVLSNALSKSSAPPITPECROV LKTSRKDVKDKETTENTKFE VRLLRDPADASEAHESSSRGEA GAPGEEDIQGPTKADTEKWAE GGGHSRERADEPQWSLYPSDS QVSEEVKTRHSEKSQLREDEEEE EGENYQKGERGEDSSEKHILEE PGETQNAFLNERKQASAIKKEE LVARSETHAAGHSQEKTHSRE KSS/QFSAA*EAGSQENRPQESK GQPRSQEKSEEGDEDATSEVDK RRTRPRHHHGRSRPDRSSQGG SFPSVEEKGHQPQEESEESNVSM ASLGEKRDHSTHYRASEEEDPD YGEEIKGYPGVQAPEDLEWER YRGRGSEYRAPRPQSEESWDE EDKRNYPSELDDKMAHGYGEE SEEERGLEPGKGRHHRGRGGEP RAYFMSDTREKRFLGEGHHR VQENQMDKARRHPQGAWKEL DRNYLNYGEEGAPGKWQQQG VLQDTKLENRVEARFQDKQYSS HHTAEKRKRLGELFNPPYDPL QWKSSHLERRDNMIDNFLEGE EENELTLNEKNFFPEYNYDWW EKKPFSEEDVNWGYEKNRLARV PKLDLKRQYDRVAQLDQLLHY

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8344	38712	A	8401	73	1922	ILPVPHP/CRQVLKTSKCPTRQA DLGHCSDDPCSYSLHITFPADASE AHSSSRGEAGAPGEEDIQGPT KADTEKWAEGGGHSRERADEP QWSLYPSDSQVSEEVKTRHSEK SQREDEEEEEENYQKGERGE DSSEKHLEEPGETQNAFLNER KQASAIKKEELVARSETHAAGH SQEKTHSREKSSQESGEETGSQ ENHPQESKGGPRSQEESSEEGEE DATSEV/DKRRTRPRHHHP/RSR PDRSSQGGSLPSEKGLPQESEE ESNVSMASLGEKRDHHSSTHYR ASEEEPEYGEGRKRGYPGVQA PEDLEWERYRGRGSEERYRAPRP QSEESWDEEDKKNYPSLELDK MAHGYPEESEEERGLEPGKR HHRGRGGEPRAYFMS/DTREK RFFGEGHHRVQENQMDKARR HPQGA/WKELDRNFLNYGEG APGKWQQQDGLQDTKENREE A*VFKINHFS/SHHTAEKRRLGL ELFNPPYDPLQWKSSHFERRDN MNDNLFEGEEENELTLNEKNFF PEYNVDWWEKKPFSEVDVNWG YEKRNLAR/VPKMDLKRQYDR VAQLDQLLHYRKKS/AEFPDFY DSEEPVSTHQEAENEKDRADQT
8345	38713	A	8402	1	381	
8346	38714	A	8403	1	444	MKLIVGIGGMTNGGKTLTNSL LRALPNCVHQDDFFKVPALA RGVLESMDMEAMLDTVQAWLS SPQKFARAHGVSQPEASDTHI LLEGLFLLYSYKPLVDLYSRRY FLTVPYEECKW/KEKYPQLHSP *SPRPLRWPRVAHVPEV
8347	38715	A	8404	3	421	
8348	38716	A	8405	3	4065	SAPPDVTITYTSEHSIQVERPQGS TGSRTAPKYGNAELMETGDGV PVSSRVSAKIQQLVNTLKRPKR PPLREFFVDDFEELLEVEQQDP NQPKPEGAQMLAMRGEQLGV VTNWPPSLEAALQRWGTISPKA PCLTTMDTNGKPLYILTYGKL WTRSMKVAYSILHKLGTQEP MVRPGDRVALVFPNNDPAAFM AAFYGCLLAEVVPVPIEVPLTR KDAGSQQIGFLLGSCGVTVALT SDACHKGLPKSPTGEIPQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
8349	38717	A	8406	10	580	KQCALLTFICSLPMSFGFAPAIT VTVVN/PRHPLIRDMRLRIKEDE DDKTVLDLAVVLFETATLRSG YLLPDTKAYGDRIERMLRLSLN IDPDAKVEEEPEEEPEETAEDTT EDTEQDEDEEMDVGTDEEET AKMS*ALLTFICSLPMSFGFAPA ITVTVVNHVFLCSKTGSQVFRS ENWKVWAESSRGDHDCLDL CSVLCWGRTATGAFSCPAQLIF AVSSSSSVPTSSSSSCSVSSV SSAVSSGSSGSSSTFASGSMFK LRSILSILSPYALVSGKRYPD SVAVSNKTTARSKTVLSSSSLI RRSMLSISGCRD
8350	38718	A	8407	1	1967	MTMAAAVVARAGARAATA AALRGCGTAARGRPCAGPAR PLCTAPGTAPDMKRYLWERYR EAKRSTEGTKKYTTSLNARHY YTHFTEENEDEINSSSSYASQKK TFEINPRHPLIRDMRLRIKEDED DKTVLDLAVVLFETATLRSGYL LPDTKAYGDRIERMLRLSLNID PDAKVEEEPEEEPEETAEDTTE DTEPDEDEEMDVGTDEEETG KESDDPMAYIHFTAEGEVTFKS ILFVPTSA PRGLFDEYGSKKSDY IKLYVRRVFITDDFHDMMPKYL NFVKGVVIRKKLVKRLTDMIK KIADDKYNDTFWKEFGPTTKLA GVIEDHSNRTRLAKLLRIQSSH HPTDITSLDQYVEK\MKEQDK IYFMAGSS\KAEESPVERLLA KKGYEVYILTEPVD\EYCIQALP VEFD\GKRFQNVVQGECKFHE S*ENLRK**CKSVEQRISALCLN WMKDKALKDKI*K/ALWVSSA ALTESPVLLLVAQPVVDWVSWP TLGE/RSMKAQAYQTGGHLL QIYYAESERKHFEINPQTPRLIR DMLRRIKEDEDDKTVLDLAIV VLV*NRQLGSGYLFQTTLKAY GDW/RLERMLRLSLNI*PLMPK VEEPR/EEPEETAEDTT\EDTE VQDEDEEMDVGTDEKGRTSKG
8351	38719	A	8408	181	462	GMAASDSSKGTGRGKQVAVG AVGDSAKESQGGPPGAPPRRA AGL/WRHHCSF*AD*TTNAPG GKNRPFGKGAGGEQGTAGDFT QMPRTQNTL

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8352	38720	A	8409	3	228	STGVVPSQQNLPLEKASVLFNT GALYTIQIGTRCDRQTQAGLESA IDAFQRAADMSPPGLTRRSLGP TRWHQGTTH
8353	38721	A	8410	129	311	RCFQPDCHSTPGTGPRRSGCL LSSAAPW*KPPAAPRTPHRSRSH NRGPRRQQHARHQDDP
8354	38722	B	8411	1	789	
8355	38723	A	8412	1	933	TVVLKDFILEHYSEDGYLYEDE IADLMDLRQARRTPSRDEAGVE LLMTYFIQLGFVESRFPPTTRQ MGLLFTWYDSLTTGVVPSQQNL LLEKASVLFNTGALYTIQIGTRC DRQTQAGLESAIDAFQRAA/VP TRGGRASTYEMTPAAS/PEIPGA SLQREE/QWTGAWTHQQIYPQP GTPP*SPPQAQPSRFLFAMDFA ATTSAIGSARPSTNQS*GYFHTG RSWQPVAA**ECHILRGNAENVL HDLSSH***RQN**NOENLQEA LPELGHQQEQTEVSQHLVPPIG RGCTASGGEEAALPFQPSQLRQ FLVL
8356	38724	A	8413	1	389	
8357	38725	A	8414	1	506	
8358	38726	B	8415	125	700	
8359	38727	B	8416	19	338	
8360	38728	A	8417	1	3335	MAALWNTCGAWKNMLIPECH SQLLRVAANPKVREQVRLELSF VNSDLQMLKEELEGLNISVGVY QNTDEDGYLYEDEITDLMDLR QACRTPSRDEARVELLMYFIQ LGFVENRFPPTWQMGLFTW YDSLTTGVVPSQQNLLEKASVL FNTGVLYTIQIGTRRRYRHTQAGL QSAIDAFQRAAGVNLNLTETFT HNPSYDMIPAMLSVLVKMMLA QTQESVFEKISLPGIWNFFMLV KVAQEAAGVGEVYQQLH
8361	38729	B	8418	1	1689	
8362	38730	A	8419	2	722	CPGSGSERGQRQPCGRSRGRTE PGFSPC*KSAAPRPAVSLKASAP RPSSSS/GPAGISSPGRESRSCGT QNILGPFLVSG*PL*GR*QCFP AAAEPPAVPL*AEDISA/GPPAV *AP/SGLAHLASG/PGPLPPLGG AGLV*QSI**GGHQGADEGP*G EMDAKEAGPAQNCDDLHVCPG ARGAEGAPGEGCIS*QPHAPDA L*AASELPKDELLRQCSGG*RC SPAGSAAPRAGSSAVLEPQ

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8363	38731	C	8420	144	439	
8364	38732	B	8421	1	4747	
8365	38733	A	8422	1019	1880	YCCLPRGGNAGCQTRQDPSCRPGPGSQGLSLPPGR/PGAAVECGARSRGWQQDGGPPSPGKAQVPAEPAPPQTVPGPPEDFCLGPRNEVPDGG/GARQSHHPGPPRSPGPEGSPQAAARLVDWRVSRPQNQLPNPGP* ^Q DQPPRPAIPTATPSGCNGPGFPAPRPRLSSEEEAPSRAGPEEEAPTYTPRLRRGRPARGPVCR/PPAGPPAV* ^{PE} FRRFALPRASVSGFQSS/PVAAGGAPDPGPGRLLYTDAHGDLPLTNTTACTGPWPAGPRHCASGAEA
8366	38734	A	8423	240	763	VLVARRPQRPGEPAVLQQ/PAGP/PVPRKPNPSPSPAGLRPPGRAGPLTSPRCPLPAFTGHRTP/VVGPVVRPKAAGPRRRTYQGRGMGPRPRRRPVVPVGGERSHSHPSGPPLRSPGEWGLTSSSCPARGLEGVSA/TQNQLPNPGP* ^Q DQPPRTCHPHGYTQRI/PSGPPRLRSPGEWGLTSSSCPARGLEGVSAPISSRIQGRRTSLPEAPIATATPNGYIGSGFPAG
8367	38735	A	8424	2	609	PYSISIVSTGPSADSVYTKVRLLGETLSVQCSYKGYKNRVEGKVWCKIRKKKCEPGFARVWVKGPYLLQDDAQAVVNITMVALKLQDSGRYWCNRNTSGILYPLMGFQLDVSPAPQTERNIPFTHLDNILKSGTVTTGQAPTSFGDAPFTTGVMVFTPLITLPRP* ^{PP} DDLPPRQATASLLPAPPARDPGPWGPRQ
8368	38736	A	8425	1	252	

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8369	38737	A	8426	3	1581	ALHCAIRHEDKWPTAVRANGH LLLNSEKMSKSTGNFLTITQAI DKFSADGMRLAIADAGDTVED ANFVEAMADAGILRLYTWVE WVKEMVANWDSLRS GPASTFN DRVFASELNAGIKTDQNYEKM MFKEALKTGFFEFQA AKDKYR ELAVGRDAQKL VFRFIEVQTL LAPFCPLCEAHLGHSWGKPG LQLWNCFPWACGRVPV*WKFL IHSSQYLMEVTHDLRLRLKNY MMPAKGKKT DKQLQKPSHCT IYV\AKE\YPPWATLPPCLFLT V KHFEGLTGKTGLDNKAIASE LGSMP ELKKYMKVM PFVAMI KENLEKMGRILDQLQEFDEKA VLMENIVYLTNSLEHIEVKF ASEAEDKIREDCCPGKPLNVFRI EPGVS RFLLVN/RPQPI MAHFL NPKLEIRQGD\TVIPIRRLMKM NRGI*RPFPKVKPGWRI**SHCW GPRRSSCPWEKEYTREDPPFPE ACLFS/DV DLMSSKKIHLTENGIR VDIGDTINLSGSLNSCTLEIYPG FLGILL
8370	38738	A	8427	1	1052	MIKNIGPQYLTSPFLGEQEGDEE EEGHVDAEAEEGDADADAK RKEKQEEV DYSEEEEEERE ENDDDMQEERNPHRRGARKT QE QDEEVGL/GH*GGPVSRPP DAAPETHPOPGAPGA\EAVER VQAVREIHPFIDYQYD\TEESL WGQVTVKLPLMKINFDMSLV VSLAHGA VIYATKGITRCLL\NE TTNNKNEKELVLNTEGINLPEL FKYAEVLDLRLRLYSNDIHAIAN TYGIEAALRVIEKEIKDVFVAVY GIAVDPRHLSLVADYMC FEGV YKPLNRFGIRSNSSPLQQMTFE TSFQFLKQATMLGSHDELRS ACLVVGKVVRRGGTGFLFKQ
8371	38739	C	8428	154	219	
8372	38740	A	8429	1	1584	
8373	38741	A	8430	200	277	

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8374	38742	A	8431	3	877	LYLKVCYI*KELFFESNLYKQPS GEEVWERILRV*DNNGRNKKL YQAEFIDLGPVSRDSAFNVAAQ GVKKGSNRLFPWLAEIWIKKW PTVREVEIPDLPLFNVEEQIKL REIGMG*WISHFRPTILHSWEGP EDIPLTRPSQNIIVRAAPASLKS PVIALLYMSDLMVRTAVTQLQ NLNTMGHGSQGGRRDRVAPLNH QRQSGHGYHNGQQRESGNQNS LTGVELWHWLNHNHVSRSSEVD RKPTTFLLNLKYKQKTSRSGRK TSLNYKNRESRPLNQFPDLQSF
8375	38743	A	8432	1	282	
8376	38744	A	8433	1	281	SVHTGHHHHYHRRHHHHHHHQ HQLHQHQHQGGGHHHHHHHH HHH/HYFQ*ATWEMLLWVGHS HL*RQP*KQHEHRDDVVSQAGS VPCASRGFHIR
8377	38745	A	8434	64	302	
8378	38746	C	8435	133	262	
8379	38747	A	8436	1	1962	MFSIPTGQLRAAASGARRHRGR GSIGGPFHAIQGPVETDITTAQH ETVAPPDLAHPSPASRGPRPY/G RHLALDEPFLHISGALF*DSLAV *EPPESRLDARPGARNSNSRCPI TA/RPPTDMDGTPSAQGAQSSA/ FAQLPPPHNSTRRAPAGDMPPS MPGATELLACSVPAQ*TSELRG GGFASSLSGSPCKFGSPASSDA WPRLQPRWPVTFPEAQPLEVPG GTEHGCSWPPELSNSAAQTFF PPLHPTAPSCPLGLPGSPGPTSS TGDYIPT*DQSGTSKLYCPLQQ GGAEAAHCV/PA/PEQPETNSKR KGETPTPN/DKEGETPTPNEKKE KHQQQTKRRNTNTKRKEGETP TPNEKKEKHQHTKRRRNTNT KRKEGETEPAQGGTNPGRVQQ SPAAL*CFSY*SECQAQCPDES AGARFTAGSAPDKGL/PPGPSS WAPSS*HLILATTVHLLVTRPC* PPSCTGPSGLVVGGRPSAHH HSDLLF*SSAGKPDSPWPCWTMS AMGILRPRGRASGAPGATPFP GEFQEAHAPPVQPSTAQSLPAP CLPLGASGGPRQHPPDVSRGG DRGLQQSVLSDAAP*PGVRGNP PRGARWGARAAPGAPGAPHS PCPQMPGRDPLVYPSPGTEAQ MSCLTPQFLQILLCDFE

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8380	38748	A	8437	438	699	LLEGKLTNRKDIHTKTPSVCHH HRGPKVDKTTKMGKKQSRKAE NYKNQASAPPPKDRSS\YQQRN KAGHRMTLMS*EKKASENQTS PS
8381	38749	A	8438	1	1334	MDGRLYSVTIQPSVVNLQLLL SGPKSAVLVVITLMCSETNLSF NEFSSEFKTTSPKMSIRKPQEK SADGKQFLQNDKRNPKLGNTQ TLRLNDVSGLLSRTKRNIVPPG WYSVYVTNNYVFKKSPKAKK VSESTTKNDPVKNIHIESHNID LNKIAMNSNLQVVVKRLDITIS IAKSSWNNQPLSEGYKASKKLI EIDGKDQHADRNMTLTLNRMT CKEQLSKSVVASGNIINSHCM PTVDLNNKRLENLKKSSILDMG RLISSVENVPKYEGETSSSVSN YSSPIKLMFLSEVKSEGVKYTL TSVGTSHSNVVLPSKPTTHHV TEETETNEDISNANSENYHSS HYDTDTFQRELNKFSHAKETA GSSTMFIGDINSDBKQOEPKDNS SSATDPSE/NKKTR*TKKNRSPS CETD*ATNWKTTKA*N*SNKH
8382	38750	A	8439	115	523	QFFFSLSQALKLDQAIHISMDAF HSVSELFASQSRRLDPAAMDLL VLSQGHQTNILDIVHIIHKEALT KVTENRQHVAEGKTE/SAEADD VRIT/VNRNSFTTSLIEHHFHP*I RDMKSQMQLFLQQEILFFQKSS RN
8383	38751	A	8440	1	461	
8384	38752	A	8441	3	319	
8385	38753	A	8442	112	480	IFSSLNVAYPWPEKKVVDGSKC PIQQQLERKIKNFVLYLK/RLQL TKCEFKN*RLNFIRVKNKEKY VCT/SYHTKLLFNHLMALILIV FKYQSFFSLHSCNQPHAKVLE PALELQDEDMVH
8386	38754	A	8443	1	528	

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8387	38755	A	8444	2	811	GIHTRLNSELLKEEESNKRLEAE IEYQSRLTAAISKHSESVKTER NVKLALE* TQDVSVQVKMSSDI SEVEDKNÉFLTEQLSKKQIKFN TLKDKFRKKRDTLRKKSLALET VHNNLSQTQQQIKEMKEMYEN AEAKENNSTGKWSCVEERICQL QHENPCIEQLDDVHQECLPS RKEKFKSEPPAFLSGNQVKSSS CSLQTLFPPDDLILYLENPKDST KKLLELNLNKFRTGYKIKLQKS VAFLNDKNEQSKENQECNPIY
8388	38756	B	8445	1	1581	
8389	38757	A	8446	617	2972	EQNKPYQWLQRKNSKRERSE KKQPQVKEGNNNTNKKSEKIQLE NICDSTSSAAAGRLTQQRKIGK TYPQQFPKKLKEEHDRCTLKQE NEEKTNNVNMPLYKKNREELERK EKQYKKEVEAKLEPTLQSL MKSKTARNTPNRDFHNHEEMK GLMDENCILKADAILRQEICTM KNDNLEKENKYLKDIKIVKETN AALEKYIKLNEEMITETAFRYQ QELNDLKAENTRLNAELLKEK ESKKRLEADIESYQSRLAAAIK HSESVKTERNLKLALERTDVS VQVEMSSAISKVKAE NEFLTEQ LSETQIKFNTLKD KFRKTRDSL RKKSLALETVQNDLTQTQQQT QEMKEMYQNAEAKVNNSTGK WNCVEERICHLQREN PWLVQQ \LDDVHQKEDHKEK* LISQRGF IESGKKDLVLEEKSKLTNECD HLKESLFQYEREKTEGVPKEN EELRKL FELISSLYNVNRIRKK NDELEEEATGYKKLEMTINM LNVFGNEFDCHGD LKTDQLK MDILIKKLKQKFDLTA EKEAL SSKCVNLAKDNQVLQOEFLSM KKVQQQCEKLEEDKMLKEEI LNLKTHMENN RVLSKLQEYK LELDEKAMQAVEKLEEIHLQEQ AQYEKQLEQ/FKQGYNTASL NK KELTLKDVECKFYKMKATAYEE VTTELEEYKEAFAAALKANSS

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8390	38758	A	8447	1	2794	AVYLSRGCVCCIRCISSLLKEPH EEGVMSCFRSVATQKNDIRPDF QLGKMDSKIKELEPQLTILYQN PKTLKFQGKKS VKFALSPSMAL RK*PFKMFSI*SIFIALQFLHGY KPILFEPNQTWPGHVAVWQD TSIVAI/SANITQKVHPVI/W/SSIP PYGVALSSLTTGTAAPFLCTQL GV*IPLDCAQATFISHDKMVISL KGYLFLSSCLGNSLLKYTEKL QEPPASAIACEAADKEPPSQKK RVDTS
8391	38759	A	8448	184	427	WAIAIQRHVVDQEWQIADPC NM**VENAETLPPGPFNLISLES SARRRATSRDDNRRFRPHRSRR SRRSRSDNALHLASE
8392	38760	A	8449	1	903	MAQKFMAPNRARTLRDICTDR EAYPVQESMSGTRGQRKEDM GGAALSTGEGGARDVKAPLPE ATLCSQMGPTRPSGSLCDLAG STLAGRWMHQSDFDGGMEAS KLPQGEGVRIQPMSETRRRRAT SRDDNRRFRPHRSRRSRSD FSLHLASEREASRLKDRPPLRA REDYDQFMRQSFQESMGHGS RRDLYGQCPRTVSDALQNAF GDRWGPYFAEYDWCSTCSSSS ESDNEGYPFLGEPPIQPARLYV TSDIDCCTNTAPTASPNLPH*VA EDSCTAGKDQRAKTCIISLY
8393	38761	B	8450	1	322	

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8394	38762	A	8451	1	2460	MEEKSKRRGVLSLLILALKFG DEPLGSPNSCKYKLTTLKELG WREVFSSQLCLCTSVASQMLS QYFEYTPHPGDICHPETCALQ KVFLTSSGQSSSTSSSQQFVLQ INAIQTILEKTPTHISTPTPTLA NPTAVGLEEDREQDVGTSRRG GAWDTRIKRELEKMSKCGGQ INGGDIAFASRAGHGVCWHPP CFVCTVCNELLVDLIYFYQDGK IYCGRRHAECLKPRCAACDEIIF ADECTEAEGRHWMMKHFCCE CETVLGGQRYIMKEGRPYCCH CFESLYAEYCDTCAQHIGEAIF GSQ/HWSFC/RCGHLCFGEWG* PQLLWMLC*LELTGKPRDAIMS SLHSWHLRKGVRRRRRKEDK SPEVLP*KSSSGTLSH*R*RPH* SLFLGSRVSLPSGECRGPYPYS HSLRLYSQALPTGRGPSSSQFP FCQFYCCYKSLLCDCLSKSPA LEKAMRGIDQGMQTYDQGHW HATETCFCCAHCCKSLGRPFL PKQGQIFCSRACSAAGEDPNNGSD SSDSAFQNAKESRRSAKIGK NKGKTEEPMLNQHSQQLQVSSN RLSADVDPLSLQMDMLSLSSQT PSLNRDPIWRSREPPYHYGNKM EQNQTSPLQLLSQCNIRTSYSP GGQGAGAQPEMWGKHFSNPK RSSSLAMTGAGSFIKECREDY YPGLRSQESYSMDSSSQSFSET
8395	38763	A	8452	2	942	NKNPKNHYPESYVSLKNDFTK LTSRRHRGVEQALVQLCHVFV CEHGHVIVTLSSGFIVYRTRAN YSSSAQGVGIAAALDAVLIRA HQRTQGCHELSALLAFEKGSE KKEEEGGQVSRSSSLKVQAQE LSATEDKGHISPFWEAVYHYA SGECRGPYPYSLSLRLYSQQA LPTGRGPSSSQFFCQFYCCYK KSLLCDCLSKSPALEKAMRGID QGQMTYDQGHWHATETCFCC AHCKKSLGRPFLPKQGQIFCS RACSAAGEDPNNGSDSDSAFQNA RAKESRRSAKIGKNKGKTEEP C*TSTASCK

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8396	38764	A	8453	1	937	VHQYVYSCLPFEKVPYVNSPGEK LRKQLLHQLPPHDNEVRYCNS LDEEEKRELKLFSSQRKRENIG RGNVRFPVPTMTGAICEQCGG QINGGDIASFASRAGHVCWII PPCFVCTVCNELLVDLIYFYQD GKIYCGRHHAECLKPRCAACD EIIFADECTEAEGRHWMMKHFC CFECETVLGGQRYIMKEGRPYC CHCFESLYAEYCDTCAQHIGID QGQMTYDQGWHAHATETCFCC AHCKSLGRPLPKQGOIFCS RACSAGEDPNGSDSSDAFQNA RAKESRRSAKIGNKNGKTEEP
8397	38765	B	8454	214	551	
8398	38766	A	8455	1	1140	
8399	38767	A	8456	1	2525	MLNIQSVPGIGQGHSRYLHNS PMHSGDFISNIHMRKPKFREIIF ADECTEAEGRHWMMKHFCFE CETVLGGQRYIMKEGRPYCCH CFESLYAEYCDTCAQHIGEAIF GSQ/HWSPFC/CGHLFCGEWG* PQLLWMLC*LELTGKPRDAIMS SLHSHWLRRKGVRRRRRKKEDK SPEVLP*KSISSTLSH*R*RPH* SLFLGSRVSL/PSGECRGPYPYS HSLRLYSQALPTGRGPSSQFP FCQFYCCYKSLLCDCLKSPA LEKAMRGIDQGQMTYDQGHW HATETCFCCAHCCKSLGRPL PKQGQIFCSRACSA GEDPNGSD SSDSAFQNAKESRRSAKIGK NKGKTEEPMLNQHSQQLQVSSN RLSADVDPLSLQMDMLSLSSQT PSLNRDPPIWRSREEPYHYGNKM EQNQTSPLQLLSQCNI RTSYSP GGQGAGAQPEMWGKHFSNPK RSSSLAMTGHAGSFIKECREDY YPGRLRSQESYSDMSSQS FSET RGSIQVPKYE EEEEEEGGLSTQ QCRTRHPISLKYTEDMTPT EQ TPRGSMEALSANATENQDDCS FVNRLKGSNNRPGRRQELMVT WNFIQERNSGMDQCDG GGG KILDPVYILTVELTGFAKGWKM FSVKDQSVNVLGFAGCLSDAG GAKRQEHLRSRMPDL SKDSG MNVSEKLSNMGTLSNMQFRS

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8400	38768	A	8457	7	302	PLPSSPEQAPAGRKTGLPCALT EIYFRVTIYFYVEIEKLLIIIVAK QEGLSGNHKKPVVERKYMTYLS AQD/HELIQVVQNGHLQMGCK SETGNEASPVs
8401	38769	A	8458	1	241	MTYLSAQDHELIQVVQNGHLQ MCKGSETGNEASP/G*GRGVNP WP/RHARSRMALTRSSASCCR CSGASSICTGSLSTGG
8402	38770	A	8459	31	454	QRSAWRSQIWSASRSV*SVFVR RASSRCLNTGSGPGHPDR*DC RT/ARRCGWTRRRMASPSAAC GRSRCCSACVI/LNIVELKEVVV GNHLESIFLVMGYCEQDLASLL ENMPTPFSEAQVKCIVLQVLRG LQYLHRNFIIHR
8403	38771	A	8460	1	914	SYHHLRHHHHHLPHHCF/HHN NHYYHHYHHYYHHHHCHHYH YHHLHHHHHHHHHHDHCYVH NNNNCHHHHHHHHHHHH*Y HHYHPHHHHHHHHHHHHYHH HHHHHHHRHHYYHHHHHQHH HYHHLHHHHYHHYYHNNY/HR HHRYSCNNNHYYHHHPHHY HHHHC*HHHYLYHHHHHNNH HHHYHHHHYHHYYHYH/HHH HHHHHHYHHYCHDHNHYHYH HHHHYH/AHFFHHYHHYHYHY HHHHRHHHHLHHHYCHRPHH YHYLSCCETSHTLFPQNAISSFD CKYLDGQDDEDFVVYKCLTLY
8404	38772	A	8461	102	420	DTGPGEGAAGCGGGVGEV AAPAAPGHS*VG/GNQPYLSPV CSRGSPTGRAAARGLSGCWP WWSPRSGSAPSQCSSASWSAW SAGAPRFAPSAPGHPEGRRCPA
8405	38773	B	8462	121	215	

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8406	38774	A	8463	44	1584	AVLDRGPRVGSSTSPGGMSTC LSSPLFATAAELGGGLCSAGR DGP RRKVYLSVDEKKLRCCQPKS GRSVAERAAGH/SAEGWRPVH VGPGLLGLAL*GP*AWGFQGR KGGI*KGAYTAKCMMGSDKAQ ASGIATGGGHSAGEAVG/PQ/ QGTVLSFEGGGGLSFRMPGSL IGPSVPCKCGHPGRCPPHHA VEGTDVATVAAT/GPPLAPSHG TSWQSGSLQ*DTGPGEAA/AA AVVGVGEGAE/LPAPGHS*VG VISHICHPFVAGSGPTGRAAA RGLSGCWPPWSPRSGSAPSQC SSASWSA WSAGAPRSAPSAPGH PEGRRCPA*GWN PQGSKSSLKS SELWTPIPYVPAVP*HTCGYA AGPAPVQTPCRGGWNGAQVGL DPIGGHGDGTPHGS/APRLPGRV GGAP*AAVAAISTDPPATASLG PAPGGPACCPSL*ACPASSASP APARSSWPPAPASCGSAAPWW HQTGHGSLWWPEHSCRLSHRS PSGPAPCWPFPRASPDRGTA
8407	38775	A	8464	1	541	MKSLEEKIGCLLKFLGDLDDQT CKEDLHILFSNHGEIKWIDFIRG AKEGILFKEKAKETLGKAKDA NNGNLQLRSKEVTWEVLEGE L EKEALKKITEDQQESLNKWK SKGCRFKGKRKGSAAQPGSGK GKVQFQDKKTKFASDDAHDEN GSTGPIKRGREETDKE*PASKQ PKTENA

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8408	38776	A	8465	1	1326	PAALGGGVVAVAVCEPVARLL WAGTLKIAVMAENGDNKEMA ALEAKICHQIEYYFGDFNLPRD KFLKEQIKLDEGWVPLEIMIKF NRLNRLTTDFNVIVEALSKSKA ELMEISEDKTKIRRSSPKLPEV TDEYKNDVKNRSVYIKGFPTD ATLDDIKEWLEDKGQVLNIQM RRTLHKAFKGSIFVVFDSIESAK KFVETPGQKYKETDLILFKDD YFAKKNEERKQNKVEAKLRAK QEQAQKQKLEEDAEMKSLEEKI GCLLKFGDLDDQTCREDLHIL FSNHGEIKWIDFVRGAKEGILF KEKAKEALGAKDANNNGNLQ LVRNKEVITWVLEGEVEKEAL KKIIEDQQESLNKWKSGRRF KGGKGNKSCPSGSGKGVQ FQKKTKFASDDEHDEHDENG ATGPVKRAREETDKEEPASKQ QKTENGAGDQ
8409	38777	A	8466	2	331	CSTSLMIREMQVKTMMRYHLTP ARMAIIKKSRPGVCGPQFTASY CSSWNRGLSRAMAQSLTPRPLS TLQ/PLLA VDRGS/PVLGASHRL PAQC/CMTDSSSSTLGSAAAGSW QQ
8410	38778	A	8467	1	209	MNSHFLKEDIQMANKHMEKCS VPLLMIREMQIKPTVRYHLTSAR MPIIKKSKNSRCWHGCGEGHT LLHC
8411	38779	A	8468	2	370	CSTSLIIREMQIETMMRYHLIPA RMAIIKK/SRCWQCGGEQETLL HSWKQPQ/LWRSSSGTARERQF LHPLLLKARIEITPPESLAVLKIP MEGTWMELEAVILSKLTQKQK TKH*MLSLTSGS
8412	38780	A	8469	2	194	CSTSLMIREMQIKTTVRYRLTS ARMAIIKKSKNSRCWHGCGEH RTLHCCLNWKERNVSYVSA
8413	38781	A	8470	341	496	

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8414	38782	A	8471	46	711	SLIHLELJFCIGLDVRLGKDFMT NNLKGNAIKTKINFWDLIKLN FCKAKRNSQ/RANR*QTEWEKT FIICTSDKGLTSRIYNKLLKQISKK KTNNPIIKWAKDMNRQFSKEDI QMANKHMKKSTSLMIREMQI KTTVRYHLTSARMAIIKKSINS RCWHGCGEHGTLHHCWK/SKS LYEKDCTRMFIAAQLAIKWTW NQPKGPSINAWIKDWCQSKTN HNK
8415	38783	B	8472	36	1199	
8416	38784	A	8473	3	184	FFFFLRRSL/DSVAQAGVQWR DLSSLQAPPPGFTPFSCLSLLSS WDYRRLPPRANFLYF**RRGF TMLARMVVIS*PRDPLASASQS AGIQKNSFFLETRVSAFVAQA GVQWCDLGSPPPPPGFK*FSC LSSLSSWDYRRLPPRANFLYF
8417	38785	A	8474	3	295	AAAFFVFETEFRSVAQAGVQ WRDLDSLQAPPPGFTPFSCLSLP CSWDYRRVPPCANFCIFSRDG VSPC*PGWRSPLVIHPSRPPK VLGLQAMS
8418	38786	A	8475	1501	1879	IRNTHAKIIECLLPFLTEL*CNF FFFFLRRSL/DSVAQAGVQWR LGSLQAPPPGFTPFSCLSLLSSW GYRRLPPCANFFVFLVIERGFT VLARMVLM*PRDPPASASQA GITGVSHHARPTLK
8419	38787	A	8476	1550	2469	FFPPFFLRRSSPLPRLQCSCGMI LAYCNLRLGSSNSVASASGVA GITGTCHHTQ*IFVFLVETGFHH VQAGLEFLTSGDLPTSASQA/ RDYRRDDHTRPEKCF/C*KTHIL WHSPSWSS/EERGSQFFSQDS*K SSRYPKLLGMWVIAINIYGTR T*K*EKFKTREYIGTHSHRGNH GVNTYHVASEKLH*YTYRMK KAKNFFFFLRRRELASVAQAG VQWRDLG/SLSQSPPGFTPFSC/P ASLRSDYR/RVLPPLANFFL YFFS/MRRGFTVFSR/MVIS*PR DQ/PASASQAGITGVSHRAR/L KIIFLFFFSETESRSVAQAGVQ WHDLGSRHRPPPGFTPFSCLSFP SSWDYRGPPRPPANFCVFSRD GVSPC*PGWRSPLVIRPASAS QKCDYRREPRPA
8420	38788	A	8477	1	2268	

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8421	38789	A	8478	1	2312	MAGPPSGPGRPEVCGAGRTRV AKARFRRRRAFASLGWSSGRE VVTFGDVAVHFSREEWQCLDP GQRALYREVMLENHSSVAGIG EDAPWGPFPCHSQHPPSQASIR GPCVYTVADVPVTGIAVIPPA VCF SRLKDCDTRTEDKEFLHKE DIHEDLESQAISENYAGDVSQ VPELGDLCDVSDRWGVPEG RRLPQSLSQEGDFTPAAMGLLR GPLGEKDLDCNGFDSRFLSPN LMACQEIPTTEERPHPYDMGGQS FQHSVDLTGHEGVPTAESPLJC NECGKTFQGNPTLFSVKQSHST GEA/SFMCDDCGKTF SQNSVLK NRHRSHMSEKAYQCSECGKAF RGHSDFSRHQSHSSERP YMCN ECGKA FSQNSSLKKHKV/HMS EKP YECNECGKAFRA/SSNLIQH QRIHSGEK/PYVCSECGKAFRRS SNLIKHHRTHTGEKPFECG*CG KAFSQSAHLRKHQRVHTGEKP YECNDCGKPF SRVSNLIKHHRV HTGEKP* KSSACGKA FSQSSSLI QHRRJHTG\ EKP HVCNVCGK\AF SY* LQCESTRFIHTGRGRPYRC SVCGKA FSHSSALIQH QGVHTG DKPYACHECGKTFGRSSNLILH QRVHTGEKPYECTECGKTF SQS STLIQHQR IHNAGAEAP/YKCNQC GKA FNQSSKFSIHPQKVHIGEK\ PSPC VECGKGFSQSSSHFFQHR Y
8422	38790	C	8479	194	458	
8423	38791	C	8480	214	378	
8424	38792	A	8481	107	345	GPLTCRYWEIHSQEPGPPRSLE MVLFSFSQN*SPVWSKEKNL*P *RDMR*/YAKPPGRCK*K*IQQ MTQMRGRNIQEKASP

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8425	38793	A	8482	1	1454	MHEEEGESGDSRVYMSTQCTH VTLNKFLGFVSESVSGLNIQES MKEVLRGQSLKHNPIREAGLET LQSGRQLERRGRLSGMARPLSL AAAGAPDLLFTALCSLLIEAQP LRPFDLQTTLTAAECHYTGKKF SLNEGKPVLRKNSQNTNTWEPG TIITWGRGYACVSPGDQSPVWV PTERLKL RVNSDKESHREKTSK SETAFIPAQDLAYNRFYLIILLT LSVSPVSPQTDLPAT*NYSYWA YVPFPPLIRPLTWMDAPAEIYT NDSVYMPGATDDHCPTRPREE GTA FNVTMGYKY PPLCLGHAH VDGCIHLQAQIWAAYLPERLAT REQGHLISLSLSPLRQMKGGVI GDTPNFQYKPVGKPCPKNFEGP SKILIWEDCVNSHVVLKND A YGLVIGWAPKGYFK/NNCSSGG RECLEATYFISHWEDKDHHTL HRRVSSFFPL*WEDKGITPPRPH MIFPILSLEHSELWKLAIAMSGL
8426	38794	A	8483	49	1393	AEPAPTHLPPPPSTAPQPERNSC CISQQSFSVP*/SPDSDRPRGRH /SPPPP/SPCPPPCLPPPKSTTAM PTRCQC PPPPIPTVAAFPLPPSHF LRTLPA PRPPTQPPPLSH/TTHPP EQRTLGP KFRLFSTSPKNLEYL MNKSGRSPGCLLREATGTADL ARSIASLTAPQTDASGISGGRST LRQTRCSSGRLRTHPRLSMRAS LPLRPRRACL PQCRDKELLITK RK YRKKKDFAA GLEDVTEFQG REENPRHTFIYSLPLGLQKHQV LTVDIGFGGTAIMTGIA RVPLA GAAGGPGVGRAAGRGVPAGVP IPQAPAGLAGPVRGVGGSQGV MTPQGRGTVA AAAVAATASIM APPPGMRPPMPPIGLPPARGTP IGMPPPGMRPPPPGIRDCGGLT PLGDVCLKGLARVLCRAIVQI YSICVLLTTSEQQLSIRIHPQNA V

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8427	38795	A	8484	49	752	AEPAPTHLPPPPSTAPQPERNSC CISQQSFVSP*/S/SPDSDRPRGRH /SPPPP/SPCPPCLPPPKSTTAM PTRCQCPPPPIPTVAAFPLPPSHF LRTLPA RPPTQPPLSH/TTHPP EORTLGPKFRLFSTPSKNLEYL MNKSGRSPGCLLREATGTADL ARSIASLTAPQTDASGISGGRST LRQTRCSSGRLRTHPRLSMRAS LPLRPRRRACLPPQCRDKELLITK KKYRKKKD
8428	38796	B	8485	511	1349	
8429	38797	A	8486	3	431	ADAVGGPGGPGMAGCDGLPG GFGSDIRPRLWLWLGPRLWSS* RGTNIIILASVPKLLLM/DCYA LARDRTATLG/TFDAISK TASN WIPDLWKETVTFKFPYQFTDHL L/VKTHTRVSKQKTQVPAVATT AARQTM EGQA PVEYI
8430	38798	A	8487	1	470	
8431	38799	A	8488	3	314	
8432	38800	A	8489	1	458	
8433	38801	A	8490	1	855	PTRPLVL RVGATARALPRPSRS CSPSAVVPSAPSSCPPQPRVTPK PEPEPEQVIKNYTEELKVPPDED CIISMEKLSTASGYSDVTD SKAI GSLAVGHLLTKCSHAFHLLC LLA MYCNGNKDGS LQCPSCKTIYG EKTGTQPQGMFVLR FQMSLP GHEDCGTILIVYSIPP/GIQGP.EH PNPGKAVSLPEGFPAQCYLP EQ RPGPAKSLRAP**R WAWK/RRLI FTVGHVPAPTGETDTVVWNEI\ HHKTEM DRNITGHGYPDPNYL QNVLAELAAQGVTEDCLEQQ
8434	38802	A	8491	1	3797	MEYYAAIENDEFMSFVGTWMK LEIIILSKLSQEQKTKHRMFS LID FGFSNLFTPGQLLKTWCGSPPY AAPELFEGKEYDGP KVDIWSLG VVLYVLVCGALPFDGSTLQNL RARVLSGKFRIPFMSGTLVPEL DKRLKAGCLSAIECEHLIRHML VLDPNKRLSMEQICKHKW MKL GDADPNFDRLIAECQQLKEERQ VDPLNEDVLLAMEDMGLDKEQ TLQSLRSDAYDHYSAIYSLLCD RHKRHKT LRLGALP

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8435	38803	A	8492	1	2563	MGDFNTPLSTVDRSMRQKV DTQELNSALHQADLIDYRTLH PKSTEYTFSSAPHHTYSKIDNIIG SKALLSKCKGTEIITNSLSDHSA IKLELRKKLTQNHSTTEKLN LLNDYVWHNEMKAEJMFSET NENKDTTYQNLWDTFKAVERG KFIALNAHKKRQERSKIDTLTS QLKELEKNQEEVESLNRPTG AEIVAINSLPTKKSPGPDGFTA KFYWRKYKEELVPFLKLQFSIE KEGILPNSCYEASIIIPKGRDT TKKENFRPISLMNIDAKILNKIL ANRIQQHIKKLIHHDQVGFIPG MQGWFNICKSINVIQHINRTKD KNHMIISDAEKAQDKIQPFML KTLNKLALQNLKLSN/SQQSLR IQNQCTKITSILIHQ*QTNREP NH E*TPHNCFKKNIPNPTYKGC EGPLQGELQTTAQGNKRGYKQ MEEHSMMLMGRKNQYLENGHT AQGNL*/IQMPSPSSY**LSSQN WKLL*SSYGTKKIGPHSQVNP KPKEQSWRHHTT*LQTILQOYS NQNSMVLAPKQR*RPMEQNRA LRNNAAYLQLSDL*QT*QKQA MGNGFPI**MVLGKLASHMEK AETGSLPYTYLKN*FKMD*RLT H*S*NHKNPRRKPRQYHSHVIRH GQGLHV*NTKSNNGKSN*RM GSN*TKELLHSERNYHQEQAT HKMGENFRNLLI*QRANIQLQ

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8436	38804	A	8493	1	1839	MPRALAFQAPVNIQAEQAGTA MNISVPQVQLINPENQIVEASSN LWELSAETTFFAISLLPFLISNS MPDGTNLNLSDEGEEPSPEALV RYLSMRRHVTGVADPRTEVME DLQKLLPGFPGVNPQAPFLQVA PNVNFMHNLPMQNLQPTGQL EYKMSGLPLSPRLPLISWSVLPT LFLAEQSLLOPPTLQLLNGMGP LGRRASDGGANILHAQQLLK/ RPRGPSPLVTMTPAVPAVTPVD EESSDGEPDQEAQVQRYLANRSK RHTLAMTNPTAEIPDLQRQLG QQPFRSRVWPPHLPDQHRSTY KDSNTLHLPTERFSPVRRFSDG AASIQAFKAHLEKMGNNSSIKQ LQCECEQLQKMYGGQIDERTL EKTQQQHMLYQQEQHHQILQQ QIQQPAQSQQVTIQVQEPVDML SNMPGTAAGSSGRGISISPSAGQ MQMQHRTNLMTLSYGHRPLS KQLSADSAEAHRLKWETREKQ LEDSSVSSNTGGDVTNEGKST ESADFGFSNLFPPGQLLKTWCG SPPYAAPELFEGKEYDGPVKVDI WSLGVVLYVLVCGALPFDGST LQNLRAVLVSGKFRIPFFMSTG YFHLLGSHCNVVLNAKDKVGF
8437	38805	B	8494	1	3879	
8438	38806	A	8495	1	4065	MGKKQSRKTGNSKKQSASPPP KKRSSSPATEQSWTENDFDEL EEGFRRSNYSELREEIQTKGKE VENYEKSLEECITRITNTENCLK ELMEPKTKARELRKECRSLRSR CYQLVERVSAMEDEVNEMKDT HRLKVKGWRKIYQGNKGQKK AGVAILVSDKTDKPTKIKRDK EGHYMMVKGSIQQEELTILNIY APNTGAPRFIKVLSDLQRDL SHTLIMGDFNTPLSLDRSTRQ KVNNNTQELNSALHQA
8439	38807	A	8496	1490	1813	TGNLQNGRKLFPHTLTKG*YP ESMMNSNKFTRKKQTTPSKSG RRT*TDTSQKKTQMPPKNT*KN AHHHWPSEKSKSL*DTISHQ LEWQSLKSQETTGAAGEDVDK

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8440	38808	A	8497	1614	3085	AGEKNKADKQLQQSLRIQNQC TKITSILIHQQQTNRPNHSTPI HNCFKENKIPRNPTYKGCEGPL QGELQTTAQGNKRGYQMEE HSMLMGRKNQYHENGHTAQG NLQI/QMPSPSSYQ*LSSQNWKK LLSSSYGTTKIGLIHQVNPCKPK EQSWRHAT*LQTLQGSYNQN SMVLVPKQRYRSMEQNRALRN NAAYLQLSDL*QT*EKQAMGK GFPI**MVLGKLASHM*KAETG SLPYTLYKNQFKMD*RFKR*T* NHKNPRRKPRHYHSGHRHQGG L/LCPKHQKQW/HTKAKIDKWD LIKL/IELLHSCRNYHQSEQATY KMGENFRNLLI*QRANIQLQ* TQTNLQEKNKQPHQKVGEHGE QTLKRRRLCSQETHEKMLIIT GHQRNANQNHNIPSHTS*NGN /QLKSQETTGADEDVEK*EHFY TVGGTVN*FNHCGSQCGDSSGI *N*KYHLTQPSHYWVYQTQTIN HAAIKTHAVCLLRHYSQ

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8441	38809	A	8498	2	2013	LNQEEVESLNRPTGAIEIVAIINS LPTKKSPGPDGFTAKFYWRYK EELVPFLLKLFQSFKEGILPNSC YEASIIIPKPRDITTKENFRPI SLMNIDAKILNKILANRIQQHIK KLIHHDQVGFIPGMQGWFNICK SINVIQHINKTKDKNHMIISIDAE KAFDKIQPFMLKTLNKLQAN LLKLISN/SQQSLRIQNQCTKITS ILIHQ*QTNREPHE*TPIHNCFK ENKIPRNPTYKGCEGPLQGELQ TTAQGNKRGYKQMEEHSMMLM GRKNQYLENGHTAQGNL*/I/QM PSPSSY**LSSQNWKKLL*SSYG TKK/GPHSQVNPKEQSWRHH TT*LQTLQGYSNQNSMVLAPK QR*RPMEQNRALRNNAAYLQL SDL*QT*QKQAMGNQFPPI**MV LGKLASHMEKAETGSLPYTLY KN*FKMD*RLTH*S*NHKNPRR KPRQYHSVHRHGQGLHV*NTK SNGNKSQN*RMGSN*TKELLHS ERNYHQSEQATHKMGENFRNL LI*QRANIQLQ*QTQNLQEKN KQPHQKMGKGHEQTLLKRRHL CSQKTHEKMLIITGHQRNANQN HNEIPSHTSQNGD/QLKSQETT AGEDVEK*EHFYTVGGTVN*FN HCGSQCGDSSGI*N*KYHLTQP SHYVVYVYQRTINHAATKTHAH VCLLRHYSQ
8442	38810	B	8499	1	2860	

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8443	38811	A	8500	3	2202	EGRNKDVI* ^N QREQRHNIPESL GHIQSSV* ^{REI} *NTKCPQEKAGK IQN* ^{HPN} ITIKRTRKARANTFKS * ^{QK} ARNN* ^{NQ} SRIEGNRDTKNP SKN** ^{IQT} TIREYYKHLHANNLE NLEEMDKFLDTYTL ^{PRLN} QEEV ESLNRPTGSEIVAIINSLPTKKS PGPDGFTAKFYQRYKEELRIKY LGQILTRDVKDL ^{FKENY} KPLLK EIKEDTNKWNIPCSWVGRINI VKMAILPKVIYRFNGIPIKLPIF FTELEKTTLKFIWNQKRARVAK SILSQKNKAGGIMLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEPSEIMPHIYNYI ^{IFDK} PEKN KQWGKDSL ^{FNKWCWEN} WLA CRKLKMDPFLTPYTKINSRWIK DLNVRPKTIK ^{LEENL} GNITQDI GMGKDFMSKTPKAMATKAKID KWDLIKLSFCTAKETTIGVNR QPTKWEKIFATYSSDKGLIFRIY NELKQIYKKKTNNPIKKWAKD MNRQFSKEDIYAAKRHMKKCS TSLAIREMQIKTTMR ^{YHL} TPVR TAIIKSGNNRCWRGCGEIGTL LHCCWDCKLVQPLWKS ^{VWRF} LRDLELEIPDP ^{AIPLL} GIYPKDY KSCCYKDTCT ^{MFTA} AALLTIK TWNQPKCPTMIDWIKM ^{WHIY} TMESYAAIKNDEFMSFVGTWM KLEIIILSKLSQGQKTQRIFSLI DGN

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8444	38812	A	8501	437	2163	KQKCNISHLWNAVKVERIKYL GIQLTRDVKDLFKENYKPLLKE IKEDTNKWNIPCSWVEESIP*K WPYCP*FTDSMPSPSSYQ*LSS QNWKLL*SSYGTKKEPASPSQ S*AKRTKLEASHYLTNSYSTRL Q*PPGKRGPPEVQGHNADENN HTFDRQGNRRHEHSIDQLAVT DVHSTTAETFLSTRGGFSKID HMLGCKTNLKNYKEIEIQSIFS NHNEIKQEINSRRKTRKSTNLW ELSSALLMNGSEKKTQVNLN WKLMAKMQHITLMECSERSK NKIPRNPTYKREGPLQGLQT TAQGNKRGYKQMEHPMLMG GRINTVKMAILPKVIYRFNAIPI KLPMTFFTELEKTTLRFIWNQK RARIASLSQKNKAGGLTLPD FKLFYKATVTKTAWYWYQNR DIDQWNRTEPSEIMPHIYNYVIF DKPEKNKQWGKDSLNFKNWCW ENWLAIACRKLKLDPLTPYTKI NSRWIKDLTVRPKTIKLEENL GITIQDIGMGKDFMSKTPKAMA TKAKIDKWDLIKLSFCTGKET TIRVNRQPTKWKKIFATYSSDK GLISRIYNELKQIYKKKTNNPIK KWVKDMNRHFSKEDIYAACK HMKKCSPLAVREMQIKTTMR YHLTPVRMAIHKSGNRCWR GCGEIGTLLHCWWDCKLVQPL WKSVMQFLRDLLEIPDPAIPL
8445	38813	A	8502	1	2001	MPHIQVMLMQEMDSHSLGKLC PYGFAEYSPSSCFHGFVLSVC GSSRDKATQRVDALVRQVIVN GGIVLDQFAVHDVALADLIDL LVDSLAMMLCGVPTTGDPFVA FALGHPDDFDHLILPKHLVDRY LLEPLLPVQLLSHSAVHLD LHQFCSDFSQYGIQLTRDVKDLF KENYKPLLKEIKEDTNKWNIP CSWVGRINIMKAMRPR*FID SMPSPSSYQ*LSSQNWKLL*SS YGTKKEPVSPSQALA
8446	38814	B	8503	152	3166	

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8447	38815	A	8504	15	2745	HPTVNIRQINETESQQGYPGIEL SSAPSGPNRHLQNSP/PPNQQNI HFFQHHTTPIPKLTT*LTSLDRS TRQKVNKDTQELNSALHQADL IDIYRTLHPKSTEYTFFSAPHHT YSKIDHIVGSKALLSKCKRTEH TNYLSDHSAIKLELRINKLTQSH STTWKLNLLNDYVWHNEM KSEIKMFFETNENKDTTYQNL WDAFKA VCRGKFIALNAHKRK QERSKIDLTLSQLKELEKQEQT HSKASRRQEITK
8448	38816	A	8505	2853	3925	AVGPSVRTPRPYLCVRKDVHD VVPILRPSATSLFMPRAAGQGG QKAGGTEKSSGP*KDDV*RLQP PNGFRHH*VQ*TCRKGCPLHSK RNTFQFQN*R*NLLYPALPNIPH SSVEEGVGS*ARSEDLEGAQLP *LLARLFTCRSNTYRGLKFTEA* GGE*QSI CYSTRRANYPKY/HM HPIQEDPDS*SKS*VTYKET*TP TQ**WETLT/PPLSTLDRSTRQK VNKDTQELNSALHQADLID/TT ELSTPNQKNLHFFQHHTTPIPKL TTYLEVKL/PQQM*KNRNYNKL SLRPQCNQTRTQD*ETHSKLLN YMETEQPAPE*LLGT*RNESRN KDV L*NQREQRHNPESLGHQIS SV
8449	38817	A	8506	2	376	IPYLP*STYMETGMIVVVGQIY GYHHYMQDRIDDNGWCAYR SLQTICSWFKHQGYTERSIPTHR EIQQALVDAGDKPATFVGSRQ WIGSIEVQLVLNQLIGITSKILFV SNTRKNKKVGNIVS
8450	38818	A	8507	1	1008	
8451	38819	A	8508	218	343	
8452	38820	B	8509	306	1434	
8453	38821	A	8510	3	659	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, /-possible nucleotide insertion)
8454	38822	A	8511	3	1990	EPHRIASPRFQAFDSGDTDRTL *FLSDIEEELTRGDPEQRHVPL RRKSEWKWAADRAAIDSRWN WLQAHVSDLEYRIRQQTDIYK QIRANKGLIGLGEVPPPEHTTD LFLPLSSEVKTDHGTDKLIESVS QPLENHGAPIGHISESLSTKSC GALRPVNGVINLQPVADHIP GDCSDAEEQLHKKQRLNLVSSS SDGTCVAARTRPVLSCKKRLV RPNSIVPLSKKVHRNSTIRPGCD VNPSICALCGSGSINTMPPEIHYE APLLERLSQLDSCVHPVLAFPD DVPTSLHFQSMKLSQWQNKPF DKIKPPKKLSLKHRAPMPGSLP DSARKDRHKLVSFLLTAKLSH HQTRPDTRHQHLLDVGAVPM VERVTAPKAERLLNPPPPVHDP NHKSMRLRDHSSERSEVLKHH TDMSSSYLAATHPPHPSPLVR QLTSSSDSPAPASSSQVTASTS QQPVRRRRGESSFDINNIVIPMS VAATTRVEKLQYKEILTPSWRE VDLQSLKGSPEEENEPAAPDV SSSHSLSEYSHGQSPRSPISPELH SAPLTPVARDTPRHASEDTRC STPELGLDEQSVQPWERTFPL AHSQPAECEDQLDAQERAARC TRRTSGSKTGRETEAAPTSPPIV PLKSRHLVAAAATAQRPTHR
8455	38823	A	8512	119	739	ADDRDHLHIQTWCAKAPVFLQ PGSSWLSTKGKKM/PETPASDE PPLRQPAVRFELQHAAPPDLSQP LGSFGHS*GPSSDTGQPAAGRW PRRQP*AAVQDLGPQTRGSASP ESQTVLPAAPSPAGSARPHGSM SASAPSPASQMSKPPCAAAC LRGSGAGGGTVGPCLEPGGSAP PRARLPRCAAGSARPGAAAGPP PGAGTTTAVP
8456	38824	A	8513	1	343	MRMCLRIPTLMTKCTNWHVT GHLCRPT/MREPTPEP/WTGDDT TA*METRWPAEQPALAERLFR AAPRGAFAGIAAPSPAAPPQPG SLGILPEPTPAQAWAARNQLRG RIKERGS

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8457	38825	A	8514	3	405	KKFNPAGERVCTILVDPSIPSTA YPSYGVPHS*GPSLSLPHL/SSSS RPSSISCPLNGPWKGCs*PPCRA QCAQPQQT*ESCHS/SSNCIPP AWEGETPSKKNKINGNPWSKIR DKTSGGEVEVWGLVAVAPVM
8458	38826	A	8515	100	1397	PPASTYLMLERLKAPWSAALQ RKYFDLGIWTAPISPMALTMLN GLLIKDSSPPMLLHQVNKTAQL DTFNYSQSCFMQSVFDHFPEILFI HRTYNPRGKV/CIYLPGGWTS AAGSSCPSSLCHPC/ARRDT/ CRPVPDVPSIQEV*SSMGESLYH PGGSSFPSTAYPS/SWSSPQLRSF SQPSTFVSSSRPSSISCPLNGPW KGCS*PPCRAQCAQPQQT*ES CIHS*ATASLQSPCSFTHTGCS TTASGWLTAAGEAELRAATTSR ASRSPPTSSASSLVPPHLRNKV WLLCSVTCRSLQTRQTSTRAC VPRTIMLPQTSPKAPNWSSW* NPTSTSPMPSAQQQPNCWA ASLLWSRNPHTSLALAQKR*TY RSWKIPIRCSPSPLAAAAATLTR PSTCPAATS*PCSVPAARCSSPT CCRLSGRQAVLPV
8459	38827	A	8516	1	326	CLTQMYFLIS/FANVDTFLLAIM ALD/RLLAICSAALRYCSITPGIYS HFYCDAYLLMKIACSIHVNQH VFLGAVVFL/APCALILVSYIRI AAAILRIPSPTRRRKACIS
8460	38828	A	8517	2	669	TISYPQCLTQMYFLISFANVDTF LLPIMALDHYVAICSAIQ*CSII P/ELCQGLPVLA*AGSSLISPVHT VIMSRlafCSSAQISHFYRDAY LLMKIACSHT*INQHVFLGAVV LFLAPCALILVSYIRIAAILRIPS PTRRRKACISCSHLSLVTIFYG TVLGICI*PPDSFSAQDAIATIMY TVVTSMLNPFYSLMNKEVQEA VRRLFSRGSHSSWCW

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8461	38829	A	8518	1	3594	MVAAAAATEARLRRRTAATAA LAGRSGGPHCVNGGRCNPGTG QCVCPAGWVGECQQCHCGGRFR LTGSSGFVTDGPGNYKYKTKC TWLIEGQPNRIMRLRFNHFATE CSWDHLYVYDGDSTIYAPLVAA FSLGIVPERDGNETVPEVVATS GYALLHFFSDAAYNLTFGNITY SFDMPNCSGRGECISKNSSD TVECESENWKGEACDIPHCTD NCGFPHRGICNSSDVRGCSFCS DWQPGGCSVPVPANQSF
8462	38830	A	8519	1	471	ALCAPQPGKCFCTTKGSSG/DE CQLCEV/ENRYQANPLRGTCYN TLLIDYQFTLSQEDDRYYTAI NFVATPDEQNRDLDMFINASK NFNLNITWAASFSAGTQAGEE MPVVSKTNIKEYKDSFSNEKFD FRNHNPITFFVYVSNFTWPIKIQ VQTEQ
8463	38831	A	8520	1	4289	
8464	38832	A	8521	1	3488	MDYGVLTRLTGSSGFVTDGPG NYKYKTKCTWLIEGQPNRIMR LRFNHFA TECSWDHLYVYDGD STIYAPLVAAAFSLGIVPERDGN ETVPEVVATSGYALLHFFSDAAY NLTFGNITYSFDMPNCSGRG ECKISKNSSDTVECESENWKGE ACDIPHCTDNCGFPHRGICNSSD VRGCSFCSDWQPGGCSVPVPA NQSFWTREYSNFKA/LPRASH KAVVNGNIMWVVGGMFNHS DYNMVLAYDLASREWLP
8465	38833	A	8522	4794	5740	YICNWYKMKDSSFPSLVQSPRS PGSCGLSGWGWGCPRVASAGS ACSCNSAVPARRTQACRRELI GGRSTIFTDVQGGWAGPGTVN EGNSACPPTLRVTVAAWLSLLF VLCRVCAASVPSLVRLRWGPQ CSGPWGAWAPPWAARVSQPG AGPGRGAEQQLPAASIQWPC HQAPHLLLVLALVTSQGPSRCR GFCLAGPCQGGPGGLJLIFCHW NVPLQFSSLFFF*DGVSLLPR LECSGSISGHCLNRLPGSSDRPA LGS*VAGDYRCLPACSANFFVF LVEKGFHHVGRAGLKLL/MVIH LPRPPRVLRLQA

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8466	38834	A	8523	594	2868	CWTSRNRPRIPGSCHPMELPRPF RGKAKVQNHQLVHHNKALIN RGLSTFWLDDGAIQAWHCPVK TYYQYTPVSSKAMY/DAFWNG/ KFRDC/AFHSLWNEDPFVCEYQ GQSSDLPPQPVNAGGSGGGGS GGGSEGGSGEGGSGEGGSE GGSEGGSGGGSGSGDFDYK MANANKGAMTENADENALQS DAKGLDSVATDYGAIDGFIG DVSGLANGNGATGDFAGSNSQ MAQVGDGDNPLMNNFRQYLP SLPQSVCECRPYVLSAGSEIGAA CASRSGYDNKGVRDYGITDCK RSEDLPLRHQLGGKKAQFTL QGFTLPEGAPAGNSGSLAVHK TAQSSYRHHALLILTPMSGTRF PPIPGPVNNIRVFPFAPSSECRC YWSWVPGSPVHCQSDGVPPI SYAPLASQYSSSLFFRNRPQYA PYDYLVSVMTPSRTLREQIRIYA PSAPRLPPPEVYCSNNTIVYVRN NPSGPTPGFAGTLLLEGRSGGP FRFYAKRAKGDVLPFSLNLPL QTLIRFMVDIACGMEYLSRNFI HRDLAARKCMYEFWRTRGWE TAAAYVGGGTTFFRKESQKLQ QSAKKRDAELANGALGIIELNN DYTLKKVMKPLITSNTVTDEIE RANVFKMNGKWYLFDTDSRGSK MTIDGINSNDIYMLGYVSNLSLT GPYKPLNKTLGLVQMLDPND
8467	38835	A	8524	302	409	
8468	38836	A	8525	199	359	ARRQQSVSVKSYRWEEEDQHCG ELQGS*VSDGLFKPP*S*HGW VEEERQKEQN
8469	38837	A	8526	1853	2032	VKQSTALLPHAVAC*PKVISSG ARGLSILVLIRIVMMVMSMLP QLALSGWGRFVLP
8470	38838	A	8527	118	445	AAGGEPGDAPWVPGVWEPPES VCRGPPPSSTFPHVPLSTFGASG PENSRCDSWLSPOH*AA*VASG NNGPQAAQGSLSGIPDAATLSG I*RASILHVSVEIISSPGFR

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8471	38839	A	8528	1	770	MRVLGIETSCDEGTGAIYDDEK GLLANQLYSQVKLHADYGGVV PELASRDHVRKTVPLIQAALKE SGLTAKDIDAVAYTAGPGLVG ALLVGATVGRSLAFALGRFGDP CTPYWRASVSARCWKIPAPNFR CALLGSAAYAVNHGTGLSKKP TTLGSDHJSKTPAQLAKRAGEA RRNGWQGA LFPWESARSGEEE TP/VICRH*HSHRAAAKSGLGA GGTSSGGRYRLGGYSILADHGG *KFHCA*RHGATSGDGKVL D
8472	38840	A	8529	3	834	VGRVEIADQYQDLAILWNCLG SDHASSRQRRPFRGKAKVQNH QLVHLQSSHQFWLPHFLAG* WGD SGLGGGS/EGGGSEGGGSE GGGSEGGGSGGGSGSGDFDYE KMANANKGAMTENADENALQ SDAKGKLDSVATDYGA AIDGFI GDVSGLANGNGATGDFAGSNS QMAQVGDGDN SPLMNNFRQY LP SLPQSV ECRPYVFGAVRHDV RRIRVTGVTRVTPPEEVDTSVH SRGAHRIRSGFAPKRSVRVTTD TCIKRNSTCGVKLSLWDGGGF
8473	38841	B	8530	1	811	
8474	38842	A	8531	1	1044	
8475	38843	A	8532	3	1472	GVVGERAGMARPGRPREGGGS G/GYSRPVPPAGGPGP*RGRTRI/ SGLANGAGPVVFQFLTELTRLF QKCR TSGSVYITLKKCKQREGS RAMLP GPFPYTPVSSKAMYDAY WNGKFRDCAFHSGFNEDPFVC EYQGQSSDLQP PPNAGGGSG GGSGGGSEGGGSEGGGSEGGG SEG D GSEGGGSGGGSGSGDFD YEKMANANKGAMTENADENA LQSDAKGKLDSVATDYGA AID GFGIDVSGLANGNGATGDFAG SNSQMAQVGDGDN SPLMNNFR QYLP SLPQSV ECRPYVFGAGKP YEFSDCDKIKILRGVFAFLLYV ATFMLPVIANIAIPQKRPFMQQT RCEVQCRE D IEVQKLKSYDKLL ASINKKPGVNGWQKRRTVNA GEAHDQ QALDYALYHLRIMTP AHDERS SIAAKGLTGE GYKGH VFWDTEVFLLPFLHFS DPTVAR SLLR YRWHNLPGRARRKRDGN GWAGGAPISVGKARAAKK
8476	38844	A	8533	609	855	

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8477	38845	A	8534	369	1278	GHTACFWYSQGRHPGPELSPFL *GPG*NAGHVISMPAARPMPC LGTGGLDVLHHLRDLPPAAL PGSAWPGEGALPLPGQVSGRG RSAACLQPGAWPGRGAAPVRR RPRAAAGSVREAELESPLHA AHRDC*LARKLNSGGYIPQAEY GKHAGLPLPGARALSCGCRAR APVPAALPHLLDHQDPGPAGR IYGTGAGTQTLDGSAPTSRAL GSTQMPEARPLAGWGVAGV WSRG*SR*TRGSAS/SPRPRRCA LLALPGAASVGLDRLARNPRGSR PPKAPSGRGGPLPPHRSTPRR
8478	38846	A	8535	3	2494	YQRQSSPEDPAETASPTYALIA ACQSEIQLQTRQQPCDMAPGL DCDPVKGSSRKRMLFNAPPV VALQPKWEASVPPGSFRPECF SEADKGVESMSPTMHKELPAL AACGLVADFPVGEETADFG PLVLDSDSDSVDRDIEEAIQEQ L/KGGGSRCKRELAHSS/APTAL CSPKLVPGGG/GPGGSQVGS KDQGSASPVMSRADSFQESIR AEIEQFLNEKRQHETQKCDGVS EKKPDTHENSASLSKSHQEP TKVVHRQGLMGVQKEFAFCRP PRLAKTNVQPRSLRSKVTTTTT QEKEGSTKPA TP/TRPSEAVQN KSGIKRSASTARRGKRVTSVQ APEASDSSDDGIEEAIQLYVQ KTRKEADGDPQRVQLQEERA PAPPAHSTSSATKSALPETHRKT PSKKKPVPTKTTPGPGDLAD IISPKIPKETKAPPTSPASRSKF VEWSSCQADTSAELNAVLDIFK TILP/APMEGSDGSLASPLFYSP NVPSRSDGSDSSVSDSDSIEQEI WTFLLAKVQSRSLARGAAGQ APERVEKQAPAGAEELPKSKRD SCEGSRKKPPSVFGSRAERTKP RPSCSSVSDSDSIELEIRKFLVE KAKESGVPGQAQPLWKPTLA GEEGLRSPAKQEGLTSAIVAGIS AALGPEHTWVPGATTTPRTPSVA PVLVPAVPTHWKKLAPACGGP

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8479	38847	A	8536	1	2463	MHKELPALAACGLVADFDPVG EEETADFGPLVLDSDSDSVDR DIEEAIQEYL/KGGGSRCKRELA HSS/APTALCSPKLVP GSGG/GG PGSQVGSKKDQGSASPVSMSRA DSFEQSIRAEIEQFLNEKRQHET QKCDGSVEKKPDTHENSAKSL KSHQEPATKVVHRQGLMDVQ KEFAFCRPPRLAKTNVQPRSLR SKVTTTTTQKEGSKPA TP/TR PSEAVQNKSGIKRNASARRGK RVTSIAQAPESDSSDDGIEEA IQLYQVQKTHKEADGPPQRV QLQEERAPAPAHSTSSATKSA LPETHRKTPSKKKPVPTKTDDP GPGDLADHSPKIPKETKAPPP TSPASRSKFVEWSSCAQDTSAE LTA VLDIFKTLIP/AMEGSDGS LSASPLFYSPNVPSRSDGDSSSV DSDDSIEQEIWTF LALKVQSRSL LARGESCPQAAQGPLSPPGLSS QTGSPKAPLSKTLDDL/GCKRK HRGG/SKAQAPRPDRAPLG WDL SIQGTASEAPGGEAARVP GDTRTSQGQKTD EARHLDDK KSSDKSSSLDSKDLDTAID LLRESQGPAPSPGSLSDNSSSV DSDSIEIRKFLVEKAKESGVP GQAQPC LWKPTLAGEEGLRSP AKQEGLTSAIVAGISAALGPEH TWVPGATTPTPSVAPVLPVAV PTHWKKLAPACGGPGQSLDID
8480	38848	B	8537	1	3345	

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8481	38849	A	8538	1	1339	MTKKSPGPDSTFGHWCVSIPS GYERSRLKVTLPEEGRGALPFL VSVAISSGSCSDNNAAVPTVLE GATTVISAAAALRDPHDGAREII LEAMTISAVAIAAEISWTSQCG LCLHPGMFMPYRHGDGIRDLLP LVLSTATICAFFKGDSKKPSKK RVKRKPYSTTKVTSGSTFNENI RRYAVHTNQCRPHGSRVKKK RYPQEDDFHHTVFSNLERLDKL QPTLEAEESLVHKDRGDGERP VNARVVQVAPLRLESSYSGIT CQENNLDAKKA/TP/CRTPYMT SLTRTPHTTSLTRILSTA/SANEA ADKGIANEDAAQGIANEDAAH GMPARMPPRASPTRSPPRASPT RTPPRASPTRTPPRASPRTPPT GSPRRTPPRASPTRTPSTASPTR TPPMASPTRTLTALLTRMPCT ASLMRTPTYTSLMRVPYMTSL MTPYKAR
8482	38850	A	8539	1	3090	MHKELPALAACGLVADFDPVG EETADFGPLVLDSDDSDVDR DIEEAIQEYLVKGSSKDQGSASP VMSRADSFEQSIRAEIEQFLNE KRQHETQKCDGSEKKPDTHE NSAKSLSKSHQEPATKVVHRQ GLMGVQKEFAFCRPPRLAKTN VQPRSLRSKVTTTTTQKEGST KPATP/TRPSEAVQNKSGIKRSA STARRGKRVTSVAVQAPEASDSS SDDGIEEAIQLYQVQKTHKEAD GDPPQRVQLQEER
8483	38851	A	8540	1	2919	MHKELPALAACGLVADFDPVG EETADFGPLVLDSDDSDVDR DIEEAIQEYLVKGSSKDQGSASP VMSRADSFEQSIRAEIEQFLNE KRQHETQKCDGSEKKPDTHE NSAKSLSKSHQEPATKVVHRQ GLMGVQKEFAFCRPPRLAKTN VQPRSLRSKVTTTTTQKEGST KPATP/TRPSEAVQNKSGIKRSA STARRGKRVTSVAVQAPEASDSS SDDGIEEAIQLYQVQKTHKEAD GDPPQRVQLQEER
8484	38852	B	8541	1	1122	
8485	38853	A	8542	1	1074	
8486	38854	B	8543	1	1017	

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8487	38855	A	8544	1	1436	MNLPRAERLRSTPQRSLRDSGDG EDGKIDVLGEEDEDEVEDEEEE EASQQFLEQSLQPGQLQVARGW GVALPREHIEGGGGPSDPSEFG TEFRAPPRSAASSEDARQPAKP PYSYIALITMAILQSPHKRLTSL GICAFISGRFPYRRKFPWQWQ SIRHNLSLND CFVKIPREPGRPG KGNVWSLDPASQDMFDNGSFL RRRKRFQRHQLTPGAHLPHFPF LPAAHAAALHNPRGPLLGAAPAP PQVPVGAYPNTAPGRRPYALLH PHPPRYLLLSAPAYAGAPKKAE GADLATPA/ALPVLQPSLATVK PVGQFCNSSSGIRRRTGNGCAP TKGAVLGGHLSAASAAA VSG GGRGLWADIARALWAERDLTS FFSIAHAQFPGRVRRALLEPGSR QPHSPTGVQKRPLLANPAGLGQ SKSSETTENRG/CPMSCQLLAGL RSNSPLSVVRKRLRADLPSFIAN KRPGRAATAAEPRRDFL
8488	38856	A	8545	1	1287	MNLPRAERPRSTPQRSLRDSGDG EDGKIDVLGEEDEDEVEDEEEE EASQKFEQSLQPGQLQVARGW GVALPREHIEGGGGPSDPSEFG TKFRAPPRSAASSEDARQPAKP PYSYIALITMAILQNP HKRLTSL GICAFISGRFPYRRKFPWQWQ SIRHNLSLNE*FVKIPREPGRPG KGNVWSLDPASQDMFDNGSFL RRRKRFKRHQLTPGAHLPHFPF LPAAHAAALHNPRGPLLGAAPAL PQVPVGAYPNTAPGRRPYALLH PHPPRYLLLSAPAYAGAPKKAE GADLATPGTLPVLQPSLGPQPW E/RGQGGGVATGR/GCISFSIESI MQGVRGAGTGAAQSLSPTVAW SYCPLLQRPSSLRTILQQQQQH QEEDCANGCAPTKGAVLGGHL SAASALLRYQPVAKGLWADIA AAPLGEGTSPVFL

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8489	38857	A	8546	202	823	AQNPTAFGVKHTSSGGEETFPN IRGIKSPPOLSSSIRL.SKNILST TGKTVHQTRDDQPRDFFKRR NRVNESHQKSSNMNAGPSWNK VQHSKNSSGKRQSKSQVPHASS QPRSSLTAVTQPTEEKLIESISPE ARRKRNP.LGFRCCGASRNK.LFL DFQSMKIIKENADEDSASDLS/D SGKNSSHSSPHTSRSSQSS*RN RVNESHQKSSNMNAGPSWNKV QHSKNSSGKRQSKSQVPHASSQ PRSSLTAVTQPTEEKLIESISPEA RRKRNP.LGFRCCGASRNK.LFLD FQSMKIIKENADEDSASDLS.DSE RIPIPSP.LTPPDLNLRAEEIGSSL L
8490	38858	C	8547	219	1013	
8491	38859	C	8548	252	452	
8492	38860	A	8549	25	443	
8493	38861	A	8550	20	1371	RLRGPALGAGGGSVTLRL/PRS EQAARKEAGLNTMIPLEKPGSG GSVPRRHLRLPGGSSGS*AGRA RTPPPQARGLLTEIRAVVRTEP FQERLQPVPRAGSWAGGKFSSG EK.MYKEKILGKNLLQSS*EKRR K\SQDCRM.EIHEIAVLELAQDN PWVINLHEVYETASEMILVLEY AAGGEIFDQCVDREAEAFKEK DVQRLMRQILEGVHFLHTRDV VHLDLKPQNILLTSESPLGDIKI VDFGLSRILKNEELREIMGTPE YVAPEILSYDPISMATDMWSIG VLTYYVNL.TGISPFLGNDKQETF LNISQMNLSYSEEFVLSA VDFIRTL.LVKKPEDRATAEECL KHPWL.TQSSIQEPSFRMEKALE EANA.LQEGHVSVPINSDTDKSE TEESIVTEELIVVTSYTLGQCRQ SEKEKMEQKAISKRFKFEPELL
8494	38862	A	8551	1	1275	
8495	38863	A	8552	1	4173	

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8496	38864	A	8553	2	5115	PDQFHNMDLRGGPHDGVITPRS TSDTDLVTSDSRSLTMVSSYY SIGHSQDLVIHWDIKEEV DAGD WIGMYLIDEVLSENFLDYKNRG VNGSHRGQIIWKIDASSYFVEPE TKICFKYYHGVSGALRATTPSV TVKNSAAPFKSIGADETVQGG GSRRLISFSL.SDFQAMGLKKGM FFNPDPYLIKISIQPGKHSIFPALP HHGQERRSKIIGNTVNPWQAE QFSFVSLPTDVLIEVVKDKFAKS RPIIKRFLG
8497	38865	A	8554	202	260	ARVHIQPVSLKQRFPLELRHH QDSEAHAPPPGAAASRGGI*V AWPAPRAGVVSLGCRSSWTA AMELSAEYLREKLQRDLAEH VLPSPGGVGQVRGETAASETQ AGERVPSRRAPAHPL
8498	38866	A	8555	72	578	GSKGSVAGARAWVVSLGCRS RWTAAAMELQRRIPPREAAGP WRRSMWRWRTRPSTVAPVASE SWWCRPSSRGNRFCQRHSLDPS MTIHCDMVITYGLDQLENCQT CGTNYIISVLLNLT LIVEQINTKL PSSFVEKLFIPSSKLLFLRYHKE KEVVAVAHAVYQAML
8499	38867	A	8556	299	939	LPSPGGVGQVRGETAASETQVL YRAMRRVTAANQAFFSEAEVT AAKERGIVLPLRC/DPS/QTIHCD MGITYGLDQLENCQTCGTNYII SVL/NLLTLIVEQINTKLPSFVE KLVIPSSKLLFWRYHKEKEVVA VA/HAVLSRPMQLGRNIPCFG RTAY*V*YWGRKWTCGPLNLL PGTVCNFPEACSEIKHAEAFKNH VFVNDNAKFVVKFDLN

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8500	38868	A	8557	1407	2783	SSAASHSSSPGAASRARATAGS RRRSSPIQSCHPPASACGQSGQS ETHRLAMRNRTPPS*GFSSK/H MRRSSSLASS*RG*KSVAVIL*IS ASGILPTDVILSPTPGSSETCHR PHPGH*EPDCLQKLPAALG*S *QFQLSHNSPRSA*AQYA/ESSG NSFFSSKVGD*RFTTTVA/PGGP GRRTLPGKPSPEHPHRLPELPPP RSPAQVCDQTLVAPHDHNTAG/ TPGDQVCLTLVTSRSLSVLSK GCFFLHIIISTLSVQAGVRHLSLV S*AAEPTSYL*VGPKLMAPS*K LKIRTRKPRADDSPGTSRYSSA HTRTRKPRADDSPGTSRYSAH TRMWKPRADDSRH/SRYSTGCR SPGQMTLHAPADTALHTPG/PR KPRADDSPGTSRYSTAHTRTRK PRADDSPGTSRYSTAHTRTQKP RADDSGTSTSYSTPLASRRHRI AASASWALVVLICLTL
8501	38869	A	8558	92	1817	PLRNTGLCRGKGHPGLESSGR RRRDGRASERRQTQREGKTL CSSHSPWWLKANASAPAVWSQ AHTRTQKPRADDSPGTSRYSTA HTRTRKPRADDSPGT/PD TALQTP GRRSPGQMTPGTSRYSTGRGSP GQMTPGTSRYSTERRSPGQMTL QTPADTAQDAEAQGR*LQAPA DTALHTPGRRSPGQMTLQAPA DTALHTPGHRSRGKMTLQAPA DTALHTPGRGSPGQMTLQAPA DTALHTPERSEPGQMT/PRRPA DTALHTPGRGSPAQMTLQAPA DTALHTPGRRSPGKMTPGTSRY SAHTRTRKPRADDSPGTSRYST AHTRTQKPRADDSPGTSRYSTA HTRMRKPRADDSRH/SRYSTGC RSPGQMTLQAPADTALHTPG/P RKPRADDSPGTSRYSTAHTRTR KPRADDSPGTSRYSTAHTRIRK PRADDSPGTSRYSTAHTRTQKP RADDSRHQQIQHRMQKPRADD SPGTRRYSIAHTRTRKPRADDS PGTSRYSTAHTRTRKPRADDS TSRYSTAHTRTQKPRADDS TSRYSTRAGCCPPGLASSAWAGL RLKTRKGWTW

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8502	38870	A	8559	13	299	EKGQDILQNLFWQLRHGPMSS APSASNTGWGSSS*SI VPSSTVSS WSTAMKLSSSLSEELAMTFHST ENIVVLGWVQWLTPVVPALWD SEAGRSP
8503	38871	A	8560	337	1879	VHVGAAARRGFGVYPVLSLTVS GTQNCGPCLQTVVSTYQRV*PI SVIMVS*RLSRKETFSGRAVPILI LEPQSLASRTVHAIMM/HNQS MYVFGGCTQSSCNAAFNDLWR LDLNSKEWIRPLASGSYPSPKA GATLVVYKDLLVLFGGWTRPS PYPLHQPERFFDEIHTYSPSKN WWNCIVTTHGPPPMAGHSSCVI DDKMIVFGGSLGSRQMSNDVW VLDLEQAWSKPNISGPSHPHR GGQSQLFKDAWLLHMHSGPW AWQPLKVENEEHGAPELWCHP ACRVGQC VVFSQAPSGRAPLS PSLNSRPSISATPPALVPETREY RSQSPVRSMDEAPCVNGRWGT LRPRAQRQTPSGSREGSLSPAR GDGSPILNGGSLSPGTAAVGGS SLDSPVQAISPTPSAPEGYDLK IGLSLAPRRGSLPDQKDLRLGSI DLNWDLKPASSSNPMDGMDN RTVGGSMRHPPEQTNGVHTPP HVASALAGAVSPGALRRSLEAI KAMSSKGPSASGRH
8504	38872	A	8561	25	313	

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8505	38873	A	8562	1	1409	MIERVLGKQWALSRAEGLRRH QCLEFLIHLVFQLMKVVNEMCP NITRIYNIGKSHQGLKLYAVEIS DHPGEHEVGEPEFHYYAGAHGN EVLGRELLLLLVQFVCQEYLAR NARIVHLVEETRIHVLPSPNDG YEKAYEGGSELGGWSLGRWTH DGIDINNNPDLNTLLWEAEDR QNVPRKVPNHYYAIPWFLEN ATVAAETRAVIAMWMEKIPFVLG GNLQGGELVVAYPYDLVRSPW KTQEHPTPTDDHVFWRWLA ASTHRLMTDARRRVCHTEDFQ KEEGTVNGASWHTVAGSLNDF SYLHTNCFELSIYVGCDKYPHE SQLPEEWENNRESLIVFMEQVH RGIKGLVRDSHGKGPNAHSVE GINHDIRTA/TDGDYWRLLNP/G EYVVTAKAGRFHCIPRTCMV GYDMGAHK/CLNFTLSKTN/LA RIRRDHWRSGKAAPSALPSPG G*KLGR/KRRQRG
8506	38874	A	8563	3	749	KTDHILGHKTCCLKTRFKIEIISGI LSDHSGIKLQINNKGNGFNHTS TWKLNNMLLNDQ*VNEEIKKEI *NHPEPTNDNGNATYQNL*DTG KEVLRGKL/IPSTYIK*VEKLQI NNLTMHLKELEKPEQTKRKITR RKEIIRAEINEIEAKKTIPKFN ETNSWFLENIHKTNEHLARLRK KDPNKIRFEKEDIITDTVEIQRII RSYYAKKWENLEETDKFLDTY NLPRLNNEEVQNLSPITTTVPI
8507	38875	A	8564	1	842	

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8508	38876	A	8565	1	1203	VPELFNGCRQLIEEVEVAT*PR RFRDSPGGSVQGLWTSRLRAAE MLFPVHLVPRPM*ILERFVPHA LDYLLGSRLFKPEPLPKQVNPS RSLDHLQRIAREHFNYLTQCH CYHVAEFELPKTMNNSAENHT ANSSMAYPSLVAMASQRQAKI QRYKQKKEHRLSAMKSAVE SGQADDERVRGYLLHLQRW VDISLEEIESIDQEIKLRRDSSR EASTSNSSRQERPPVKPFHSFH GTWLHSQSTFGAGYSKGWPTY RTVSDWYEQHRKLWSTYPDQ GIAKAAPEEFKRAAQQQEDQ KKRRKRMRTKQLPQSPGVGM TGS DTHP*GPMGTDRTWADLP TTPQDSGVHTPLPRKTMQSSP PPVSWLQLCTTEGDKAKSCFAF SKVSSDLSVYLYP
8509	38877	A	8566	1	995	GTKELLT*LGGSPLLLT*TKPL GVDPL/LKGGVTQGFNEKAVFA ALRPSYGGPAGKPAFAGAMSL AGAQQSLWSVEGGNKLVCGL LKLTKANVIHATVTSVTLHSTE GKALYQVA YENEVGNSSDFYD IVVIATPLHLDNSSSNLTFAGFH PPIDDVQGSFOPTVSVLHGYL NSSYFRFRP*AFPLSNILTTDF PSFFCTLDNICPVNISASFRRKQP QDAAVWRVQSTKPLFRTQLKT LFRSYYSVQTAGVGRANPLYG FRPHGFPRFALHDQLFYLNAL WAASSVEVMVAANKVAFW LYNRWYQDLKDIDQKDLMHK
8510	38878	A	8567	1	372	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v-possible nucleotide insertion)
8511	38879	A	8568	1	1699	MHAKSIKTQALADMEKIKVTV RDKNWVARIIPQMTSGKHVGV TTTSSAKLSQGGKDSVAVKRV RSGLMIGFRFMVIPPYSFGPQVL MEIPKADADKLLCPSCAAVVLG QKKHETQTLSELKELPVQDNVV PKEDPGTWEWRTVKEGILEEV MCWLQSRVEGDWAKEERKIFH EGELAEAKAGRGGLASCTCCPL TPGKMAGPWTFTLLCGLLAAT LIQATLSPTAVLILGPKVKEKL TQELKDHNATSLQQLPLLIAM REKPAGGIPVLGSLVNTVLKIH WLKVITANILQVQKPSANDQE LLVKIPLDMVAGFNTPLVKTIV EFHMTTEAQATIRMDTASGPT RLVLSDCATSHGSLRIQLLHKL SFLVNALAKQVMNLLVPSLPNL VKNQCPVIEASFNGMYADLL QLVKVPISLIDRLF/*PSVSC QG*HHSALPGGQVVGLTGKGD QVVHNSAASLTMTPLDNIPFSL IVSQDVVKAAVAALVSPSEFM VLLDSVLPESAHLKSSIGLINE KAADKLGSTQIVKILTQDTPEFF YRPRPCQGGPTDRAGSVSLQ
8512	38880	A	8569	1	1060	MGLPAQGVGGNTLAKLLASDD IAKGGKRNKSEASVVRNAADA PKVLQDLSARLMGDFELRNCN SPCTLLIGIVVLINAAETLVFLS DHMEDQGSQNLNVAVLSYFQQ QDPEGQKEETAGIDLMDMASDI LQPKGDDVARISWYLRDIITRY QETFNVIERCPKVIAAVHGGCI GGGGAAAPMPRPLASSLSSVM GQTVSQEAAPPQSGQWFWWS FSIPGLYLLGVDLVTACDIRYC AQDAFFQVKEVDVGLAADVGT LQRLPKVIGNQSLVNELAFTAR KMMADEISSKSPVALQ/S/KVN LLYSRDHSVAESLNYVASWNM SMLQTQDLVKSVAATTENKEL KTVTFSKL
8513	38881	B	8570	331	1200	
8514	38882	A	8571	3	379	TSLTFHSPÉVPSS*PPSCTR*AGA ARGPRPPGAAGRPR*SC*GPGT RRWQS*GGTSPGLPVPGGRSGA ASCGLPDCEL*PLKRSQAQGRNQ CPV*SSPRWSRSRSEPCAARG WPPSACRHGNNR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met bod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
8515	38883	A	8572	384	1718	SLQLPRGLLPESCAADPGA*PPS CTR*AGAARGPRPPGAAGRPR* SC*GPPGT/PALAKPPSCPVVTS AAPTQARPMIKPQGAAWSTQK LPIPTASPTQKSPIPTASSTQK LPIPTAAWSTQKLPPTAAWST QKLPPTAAWSTQKLPPTAAW STQKLPPTAAWSTQKLPMTAA SSTQKSPIPTAAWSTQKLPPTAA WST*KLPIPTAAWSTQKLPPTA ASSTQKYTIATAASYHAKATDA WST*KLPIPTAAWST*KLPIPTA AWSTQKLPPTAAWSTQKSPIPT AAWSTQKLPMTAAWSTQKLP PTAAWSTQKLPPTAAWSTQKLP PMPTAAWSTQKLPMTAAWSTI TTMGATTHGPSTDTQNVVFLH PRCPEQASSQKSGAGAD*GLSN PKVSSAEAPSCAKDEPEVEKGR GPAPWTSQRWRAVGRPRG
8516	38884	A	8573	302	543	KLHLGWGKTPG*HWGLY*NLP RLNGPNSLMPSLRRVRRNKAR QVTSIAGCALQMEQWMHGMT RHPTRISTPITAAREVRI
8517	38885	C	8574	253	396	
8518	38886	A	8575	1107	1751	LQDLSQYFGGSQLIK*IG*TTSI ITNSNL*TTLEM/SVKGIAEQLG TNCQMAWENRIALDMILAERG GVCIMIKTECCAFIPNNTAPNGS ITKALQGLTALSNEALSSGVN DPFTGWLEKWFQKWKGITASIL TSLTAVMGVILVGCVPICIG LVQRHRGPPLVVIETKPLGLER LAGLPVGHALKLGSQIATPQN GENADRRREAFPAAS
8519	38887	A	8576	1	1365	
8520	38888	A	8577	3	263	QLILKDKFITQSAADIKEKLQKS TLGPERNLKTLNLAT/CCFL** RSGGAGGTGQTR*EGGHFHS GPRASGLWRLWNAESLGKSNA
8521	38889	A	8578	365	470	
8522	38890	A	8579	1	1278	
8523	38891	A	8580	23	257	
8524	38892	A	8581	1	1812	

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8525	38893	A	8582	265	699	LLGSTVLFHDPQLLIELYHSSHG PKVPFLGIREAKNSRSENTRLAT ILGAGLLPSWKVFTTILGAL*A RTPR*HFGNH/VTDIQS/RIEAVK LQMEPKMQSKTKIYRRPLDRPA SPRSDVNDIKGTPREEISAAK/PL LRPNSAGSS
8526	38894	A	8583	2	181	
8527	38895	A	8584	1	69	
8528	38896	A	8585	1	674	MDLNYLTLEQMDLTDIYRTHFPT TTEYTFYSTGHGTFSKTDDVIG HKMSLDKFKKIEIMISNTVSDHS GIKLEINSERNLENHANTWKLN NLLNECWVKNKMKMEIKKLF ELNDNNDDTYHNLWDRAKVVI RGKCIALNTYIKKSERAQTDNL RIKNKNHMIISIDA EKAFDKIQH PFMIKTLISKISIRGTLYNLIKDI/S *QTHSQHNAEWGKIESIHSENW NRG
8529	38897	B	8586	1	415	
8530	38898	A	8587	1	516	
8531	38899	B	8588	110	382	
8532	38900	A	8589	140	253	QNKACQHPPKITRVHQWQIQT KKKSSYLLKKEFRRLVIKLIREA PEEGKAQCKEVQKLIQVQGEI IDEIDTINKQPKLQETMDTLTK MQNAQESLSNRIEQEEHKSLS ENIFGSIMEENFPLARDLDSQI QEAQRTPGKFITKRSSPRHIVIR LSKVTKERJLRVVRQKRKIVL KS*PGNMTKQGLSTSPKNHTSS PTMDPNQEEILDLEKRIQEVSY
8533	38901	A	8590	89	194	
8534	38902	A	8591	2	633	

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8535	38903	A	8592	298	2648	GSSKILLFNQNEDDKINFELFFF FVASALVLVQKAFSRSSWSSMA LADKRLENLQIYKVLQCVRNK DKKQIEKLTKLGYPELINYTEPI NGLSALHLASVSNDIDMVSFLL DLGAHPDVQDRMGCTPTMRA AELGHELSMEILAKAKADMTIV DNEGKVLGTGGTLSSPLAHIA VALHIPRDTQGVLFYCIPLTKR HYRCALIALEHGADVNNSTYE GKPIFLRACEDAHVDKDVCLTF LEKGANPNAINSILKLLFAYNG DVGLISINGNTPLHYAAMGGGFA DCCKYIAQRGCDLKWKNLDHK TPRAVAKEGGFKAAASKEIRR/C RENRR**TSQARSQKSQIPLWAL RLHDWSVEREAFLEAFVLD RGDGSISKNDFMVLEE/SRIM QAQNSWLPFAHLHEKTRGGGV NIN*ILLKEPDILNKSFVLGSYGP KKKEKGMGKKGKKGKFLPLP ICVPEIYAFRRQDGGPPYIMIE TYKNVTDSSRFNRDHPPEHIQ DDSVWYIDDSEKVFSPNINIITKA GDLASLKKAFESGIPVDMKDN YYKTPLMTACASGNIDVVKFLL EKGYASPSGQDQDVELLVESGA LIDAASJNNSTPLNRAIESCRLD TVKYLLDIGAKFQLENRKGHSA MDVAKAYADYRIIDLIKEKLDN LPKPAENQKLKGKTPILKTEG PEIKKEEELSSIYGVPTTSEK
8536	38904	A	8593	3	838	MGRGWTQAVGPRWSGGSSCTL YSVGADGRGQGHQSRGCRPPG PPSASSAPCLAWGAAGRARE GLRQNAERSPLTAPAGR*PC GAGPCR*SR*RLVGLRPW ASPGTGAAACGRCCCP*P/P*P NPWHFTVSKAFSYMPSTTA/RL VRGPRLLVGPVPVAPYIPP/PGS PASRRGSRGRSRPSRPRPSV LSCHGVSL*TGPSLPGWLLQIW QRSQMS/P/PPKGPP*GREGPP PP/GPALLPAAAPGGQGHRAPA AGSCGRRRAAARRMEWVRNSPP
8537	38905	B	8594	1	2700	

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8538	38906	A	8595	1	1240	FPPYATNEIGKVTGLNRRELGH GALAEKALYPVIPRDFPFRTIRVT SEVLESNGMRRIGQPPASSRPV RRVRAPLPPPLLEVRAPLPASRP SGEVLCTVTFDSLESIGKSDQVI TAINGIKDKNFMLHYEFPPYAT NEIGKVTGLNRRELGHGALAE KALYPVIPRDFPFRTIRVTSEVLE SNGMRRIGQPPASSRPVRRVRA PLPPPLLEVRAPLPASRPSGEVL CTVTDFDSLESIGKSDQVITAINGI KDKNFMLHYEFPPYATNEIGKV TGLNRRELGHGALAEKALYPVI PRDFPFRTIRVTSEVLESNGSSSM ASACGGSLALMDSGVPISAV AGRTN*DWSPKPDPEKGEIRKII VC*QIFLGIEDYNGDMDFKIAG TNKGITALQADIKLPGIPIKIVM EAIQQASVAKKEILQIMNKTISK PRASRKENGVPVETVQVPLSKR AKFVGPGGYNLKKLQAETGVT ISQVDEETVFCNLHQHPVLMLE GKRLSFTEICKDDQEQAIRNLG AVILPAHNWVKSEILVGMGKII
8539	38907	A	8596	152	305	DNQNGKLIKCS*PCNFVHRAPY AVEITVLRFCNWTQVQAQRE RTFLILIK
8540	38908	C	8597	414	611	
8541	38909	B	8598	1	403	

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8542	38910	A	8599	1	1702	MDSDEGYNVEFDEDEECSEEDS GAEEDDEDDEDDDDTLDLG EVELVEPLGVGGGERDGLLCG ETGGGGGSALGPGGGGGGGGG GGGGGPGHEQEEDYRYEVLTS EMILQHMVEICIREVNEVIQNPA TITRILLSHFNWDKEKLMERYF DGNLEKLFACHVINPSKKSRT RQMINTRSSAQDMPQCICYLNY PNSYFTGLECGHKFCMQCWE YLTTKIMEEGMGQTISCPAHGC DILVDDNTVMRLITDSKVLLKY QHLITNSFVECNRLKWCAPD CHHVVKVQYPDAKPVRCKCGR QFCFCNGENWHDVPVQCKWLK KWIKKCDDSETSNIWIAANTK ECPKCHVTIEKGGCNHVMCR NQNCKAEFCWVCLGPWEPHG\ SAWDTPVP*NEDDAKAARDAQ ERSRAALQSYLFYCNRMYMH MQSLRFHEHRLYAQVTQTMEE MQQHNMMSWIEVQFLKKAADV LCQCRATLMYTYVFAFYLLKK NKPSFHIFENPNKARFDENATE GLSGYLGTRKFPKDS/LQDIKQ KVP RPSTRYCESRRKGFVTS MC HEGYEKDLWEYIED
8543	38911	C	8600	118	219	
8544	38912	C	8601	16	408	
8545	38913	B	8602	1	996	
8546	38914	B	8603	1	1302	

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8547	38915	A	8604	983	2127	DNWKSIRGSCWQDPRELLTFM APCIGVVVMQTTTR*K*NTLAGH PSAGVCWCVTSAACIGAWD ATSPLSSTFATAPGLPRCCSQAS PAPRAEPLHGQPGAPPHALKRP PGLPWP*PQEARQYRHNQAY YSIQGDGAEDDERIVRFHTRV INHKRKNSPRIVQSNDLTEAA YSLSRDQKRMLYLFVDQIRKSD GTLQEHGICEIHVAKYAEIFGL TSAEASKDIRQALKSFAGKEVV FYRPEEDAGDEKGYESFPWFIK RAHSPSRGLYSVHINPYLIPFFIG LQNRFTQRLSETKEITNPYAM RLYESLCQYRKPDGSGIVSLKID WIIERYQLPQSYQRMDFRRRF LQHIFVLRERPETVLIDLIQRTK DAVRELDNLQYRKMKKLLFQE AHNGPAVEAQEEEEEGWNLD RAYDYVKERRTVTKPNPFSMR QLEEQGILLARPKRTAYIYGS VYRRCGYADHKVEIKHPGWAS ISRGVLVCDECCSVHRS.LGRHIS IVKHLRHSAPWPTLLQSGFPGP SRRAAPRAARGPTPRTEEA AAMALTFLLVLLTLATLCTRLH RNFRRGESIYWGPTADSQDTVA GSPDHGLLAFAYHRLVRFLW VLCPGWAFFLVNSRGGVFNPI LHPCPRHGQARFAGVGAEDY TFLYHPCAHWPWLKQLALLAY ACMANPSLTPDFSLTQDRVDIE
8548	38916	A	8605	1	224	RKQEWLSKQKENIQHFQAE ANLLRRQRQYLEECRRFKRR MLLGRHNLEQDLVREELNKRQ TQKDL EHAMLLRQHESMQELE FRHLNTIQKMRCELIRLQHQTE LTNQLEYNKRRELRKHKVM EVRQQPKGLKSKELPNKKSFSQ GYLQNSQTRQYKALRNHLLT TPKSEHKAVLKRLKEEQTRKLA ILAEQYDHSINEMLSQTAVSLFF LGQNKFSAPFLPPP*AVSEQLCA HSLV

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8549	38917	A	8606	1051	1875	SDQLTAHLNLCVEVAELQFLHR FMLSFPIHHLRLFTAPAQDASL VPLKGDILGVKLSGDDGRGKP AQHLFLSGLSSQQLPVLPSQ CQSLCVHHFPAVVVNLHDIIGAC VSCLPDLGP*QSCGSLAARSC GQSPGVWCLPSGSGRSSLTLCRC H*GRSWTPGAPS**TPISSPRRSP GPCAASPGARGCPPAASPPAGS PGTEAAPAPPGPGYSQPPGAL SSRCDSPCPLRRAPGAHGHTP RCPSVVARCRGVPRRGSSCSMS TSLTRSCSKL
8550	38918	A	8607	714	2148	MPAVAKSKPINRKRRCMPQV LRSASPIQEGEKISANENSLAVR STPAEDDSPGDSQVKSEVQQPV HPKPLSPDRASSI.SESSPPKAM KKFQAPARETCVECKTVYPM ERLLANQQVFHISCFRCSYCNN KLSLGTYYASLHGRIYCKPHFNQ LFKSKGNYDEGFGHRPHKDLI GQAKMKTEEILER/QPQLANAR ETPHSPGVEDAPIAKVGVLAAS MEAKASSQKEKEDKPAETKKL RIA WPPPTLGGSGSALEEGIKM SKPKWPPEDEISKPEVPEDVDL DLKKLRRSSSLKERSRPFTVAA SFQSTSVKSPKTVSPILIRKGWS MSEQSEESVGGRAERKQVEN AKASKKNGNVGKTTWQNKES KGETGKR/R*GKVHSLMENEN VFVINGARLPEDDNQLPPKQQ SSTKNPSLLEFGPSFVDNHLK EFTTQNKQSQDVLEWEGEVVK ELSVEEQIKRNRYYDEDEDEE
8551	38919	A	8608	I	4479	MCFSPPKLYKHEIHLKDLTCL KPSIESPLRQNRSSIEEEQKQE ENGDSQLILEKIQLQOWSISLNM TDEHGNLNLVCDIKKPMDEVY KIHLNQTDPPDIDINAMVALDF EYPMQTQENYENLWKLIAYYSE VPMKLHRELMLSKHPRVSQYQ RQDADEEALYYTGVRQAQILAE EWIMQPSIDIQLNRQSTAKKV LLSYYNQYSQTIATKDRQARG RSWVMIEPSRAVQKDQIVLEG GRCQLSCNVKASEP

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8552	38920	A	8609	1	9009	MDEFAPGKHLATSGDLFGDHN YGRRTYHTLEVKCAEEHPAVS DPFQRQSLRALSPLEDLPPSSG LRSGLTLELLMIHGNIEIPSPD GALRDLSSLQVFKFSYNKLRVI TGQTLQGLSNLMRLHIDHNKIE FIHPQAFNGLTSLRLHLLEGNLL HQLHPSTFTSTFTFLDYFRLSTIR HLYLAENMVRTLPASMLRNMP LLENLYLQGNPWTCDCMRWF LEWDAKSRGHSCRGCAIISLSH EIQLAKGFCEMLLL
8553	38921	A	8610	1	4971	MKASGILKCKDKAYEGGQLC AMCFSPKKLYKHEIHKLDLTC LKPSIESPLRQNRSRSEIEEQKQ EENGDSQLILEKIQLPQWSISLN MTDEHGNLVNLVCDIKKPM DV YKIHNLQTDPPDIDINAMVALD FEYPMTQENYENLWKLIAYYS EVPMLHRELMLSKHPRVSYQ YRQDADEEALYYTGVRQAILA EPEWIMQPSIDIQLNRPQSTAKK VLLSYYNQYSQTATKDTQRAR GRSWVMIEPSRAVQK
8554	38922	A	8611	1	1283	LSFTTCSTFTSNYRSLGPAQAPS YG/SRPVSSVASVYAGTGNSSGS RISVSCSTFRGSMESGGLAAG MT/GGLAGMGGIQNEETMQSL ND/*LASYPDRVRHLETKNRKL ESKIWEHLEKKGPQVRDWSHY FKTIRNQRAQSLAITVDNACIVL QINNTHLAADDFRVKYETELA MCQSVESNIHGLCKVNDNTNV TRLQLETEIKALKEELLFMKKN HEEEVKGLQAQIASSGLTMEVD PKSQHLAKIMAAIRAQYDELA WKNGEELDKYLSQQIEESTTVV TTQSAKAGAAEMTLTELRC TV QSLINLNSMRNLKASLENSVR EVKACYTLQMEQLNGILLHLGS ELAQTQAKGQCAQYEAALLN IKVKLEAFIATYCHLLEDGKDF NLGDALDSSNSMQTIPKTTTHQ RVDGKVVSETNDTKVLRH

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8555	38923	A	8612	2	1365	RPQSLSPVLSLSPDSMSFTTRST FSTNYRSLGSVQAPSYGARPV SAASVYAGAGGSGSRISVSRST SFRGGMGSGGLATGIAGGLAG MGGIQNEKETMQSLNDGVASY LDRVRSLETENRRLESKIREHLE KKGQPVDRDWSHYFKIIEDLRAQ IFANTVDNARIVLQIDNARLAA DDFRVKYETELAMRQSVENDI HGLRKVIDDTNITRLQLETEIEA LKEELLFMKKNHHEEVKGLQA QIASSGLTVEVADAPKSQLAKV IMADIRAQY*RAGLGKNREEEL DKYWISQQIEVSTTVVTTQSAE V/GAAIETTLTELRRTVQSL LDSMRNLKASLENSLREVEA/R RTPLQMEQLQRGSLHLESELA QTRAEQQRQA/QEYEALEHQ GSSLEAEIATYRRLLEDGEDFN L/GDALDSSNSMQTIQKTTTTRI VDGKVVSJETNDTKVLRH
8556	38924	A	8613	170	399	
8557	38925	A	8614	141	287	LPSRRAGLGTCSPPCLSLPPASR APVRPEPLR*APPPAPRRVPVST TQG
8558	38926	A	8615	356	574	
8559	38927	A	8616	552	770	
8560	38928	A	8617	158	368	
8561	38929	A	8618	1136	1410	
8562	38930	B	8619	1	631	
8563	38931	B	8620	321	2234	
8564	38932	A	8621	170	444	
8565	38933	A	8622	325	722	LIELRHLVFFVLLFRDLQHIMA CNMRDAVRFFVCFVFFREGL SRSSGA/DDRFLAGP*LLSRGAG LGTCSPPCLSLPTPWAP/AAAP ASLT/TPPPAPRRVPVSTTQGLRS ASARHGTGRQLHLQPRCGIH
8566	38934	C	8623	1	1449	
8567	38935	A	8624	326	626	LPSHGAGLGTCSPPCLSLPPPLW AP/AAAEPPRQAPPPAPWCPVPS TTQGLRNASTRRRTGRQLHMI WPPASLKSPPATLPCHECAPIT LTFSCSSNMQT
8568	38936	A	8625	2009	2227	
8569	38937	B	8626	182	1513	
8570	38938	A	8627	497	761	NHTSCLPLGPGTTAAEELPSLVA GFGTCSPPCLSLPPTPWAPVRPE PPR*APPPAPQRVPVSTTQGLRN ASTRHRTGRQLHLQPRCGIH

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8571	38939	A	8628	218	855	GAGLGTCSPPCLSLPPTQRA PV RPEPPRRAPPPAPRRPVSTTQ G LRSASTRHRTGRQLHLQPQCGV H*VKPAGLLSLALETRTNPA/ DKHLWQSIISLQLKSDLLKEM L GSQTGNNGNVQDVLRYLVKSE T QKAIKVSLDCVRKRYRSSL SL QLKLCDCWGALEFSSALTLD P KEVVVRDLEELSNYKTTLEGS G IFDSVARVREESEAEGL
8572	38940	A	8629	350	615	
8573	38941	A	8630	186	566	RLLSPAACRSGMTMIFPSIHPS QC RMIGLGWKK*SSVHNATPWAP VPPEPPGRAPPPAPGRPVPLT TQ GLRSASARRRTGRQLHLQPQCG IHVVVKPAGLLSHEGPRLRSS SQ SDQEPTNSGHS GMCL
8574	38942	A	8631	656	874	
8575	38943	A	8632	415	634	LPSRGAGLGNCSPCLSLPPTPW APVQHKPPRRAPPTPRHPVPS TTQGLRNASAWRRSGRHLHLQ PQCGIH
8576	38944	A	8633	2	264	NKQPIWIPSRHLKPYHEPDAKE EIPGGS*GPTSCSHVETDAEED P NCHEQHLSNTATHLGTDOEAVI DGRRKPEESRTTSHICRCS

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8577	38945	A	8634	1	1743	MGQVWALVHSTLETFTTDEEE GEYNEVTEQVCLPAKAGSAAV DLCTKAVSLLPGESPQKVPTG AGGPLPAGMTGLLLGRSSLNIK AVQVQTGVTDSYNGEIQVTS TSVPWKAKPGDHIAQLLIVPKK FARFEGTASSGKTKFLPRFRISF LMAAIVKPPEPIPLKWLTDKPI WTEQWPLSKEKLEALEDLITQQ LKKGHIAPIFSPWNSPVFIKKK SAEQDCEWFVFTILAVNNLQLK PAKRFIHWKVLPGQPNQQPIWIP SRYLKPYHKPDAKEEIPESGSG FPVAAMSRLLRRTPTVTSNTH RTQPPTWGQIEKLPMMAEENLR KAGQPVTISNWILPRITKFKPIE GAENVFTDGSSNGKASYSGSK GPLTEGNQMADRLVAKVISNA RHFHNLTHVNASGLKRRYSIT WKEAKAIQRCPTCQVMLSAAE QHLQKSAAKTEAEKLVWWRD PITKSREIGKIITWGRGYACVSP GPNQQPIWIPSKHLKPYHKPDA GEKIPGESR/ETPGCSHVKTDAE EDANCHEQHPSNTATHLGTQD EAVTDGGRKPEESGTTSHNE*F NDSGDHHCLQOQGL
8578	38946	A	8635	820	1344	PDGTTDRADGRDLRSVSWETL RGCPAVRKDSIGWIRLSRTLKK NVHLCLPLRQGGLFVCPVTSSS PQHISSHRGFWNISKDAPMSWP GSYSCHNVVAVPGQGQ*SRRA RMLRGLLSKAGHHSFCTDQAI LEITKFTFTWD*VTLGQ*FMLS ES*SSCKPNSCCPVQCLVHSGG
8579	38947	A	8636	3	760	

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8580	38948	A	8637	1	1354	MGISCPGSSKMLNSRALPVLKL TQGA LR DCKERANYTNFN IYK AVESQKGFVCVLYNGQSP EY VMIPCTSVSPITGQEVPE DRGMR MVMKNKPNKPSKMQLSKSSKH LTNSVIVIAVGIFFSVTLQARDP QLDDAIEQLRGVCIRAWEKIT S GGEQYPSFSAIKQGPK EYIDFI ARLQESLKKMIADSA AQDIVLQ LLAFDNANPDCQAALRP IRGKA HLVDCIKACDDIGDSSNGKAS YFGSKSVFQTSYTS AQKAELV AVIEVLTA FDMPINVIDSSYM VYSTQLIEN AQLRFHTDEQLMT LFTQLQTA FRSTMHPFYITHIRA RHTPLPGPLTEGNQMA DCLVA TAVSNARHFHNLTHVNASGLK CRYSNTWKA AKAIHQRRPTCQ MVHSSSFTGGVNPQGLEPNSL WQMDVTHVPSFGR LAYVHV C VDTFSHFVWATCQSGES
8581	38949	A	8638	596	1820	
8582	38950	A	8639	275	1495	RLGSSLL EYTLPDQGNIIATFE PPFFKFGKAHSV DYIKACDGIG GPLTEGNQMA DCLVAN AISNA RHFHNLTHVNASGLKRRYSIT WKEAKAIQ QCPTCMVHSSSF TGGVNP RGLEPNSLWQMDVTH VPSFGR LAYVHV CVDTFSHFV WATYQSGESSACVS KHP LLQC FVVVGIPAFIKTDNAPGYTSQA LATFFSVWN IKHITGIPYNSQGG AIVERMNL SLKQQLQKQGGN RDYR/TP* MQLNLALL TLNLS LPKGQMFSAAEQHLQKPA AKT KTEQLIWW RDLITKSWEIGKIIT WGRGYA YISPGQNQQPIWIPSR HLKPYHEPDA RKRLQEDPEDP PSCSHVKTDAEEDPN CHEQHPS NTAIHLRSDQEA VTDGRRKPEE WSGTRTWWRPWSCRT
8583	38951	A	8640	232	789	ERPWGPEGNSEGSFC PKGLEIPR TCLRGPAASAAAGAEGRQDPP GGPWCSPAAGDLGSPGVQSPG GGS PRGAQVAMSGSRRRRAP GVWGALQ*HRR*ARRMHSFPP SL/PLL*NG*SPLFLVSKCLTGSP LRSASPCPPAARSC*KHPDSSPG RGPGARQSPALHPALPSLARRA APGRSFPLTSRK
8584	38952	A	8641	1	149	

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8585	38953	A	8642	1	2541	
8586	38954	A	8643	1	989	MQRGQQATGSSANAWGILQPK WVQTGPDNKRMARNVLYKER LLAESPNHVVAEAVIQRPNPHL QTRDITYEGLCQTLGSQPTLYQI PSLYCSYETNSNAYLLQLPIRKE VIHLEPYIALYHDFVSDSEAQKI RELAEPWLQRSVVASGEKQLQ VEYRISKSAWLKDTVDPKLVTL NHRIAALTGLDVRPPYAEYLQV VNYGIGGHYEPHFDHATSPSSP LYRMKSGNRVATFMIYLSVVE AGGATAFIYANLSVPVVRVQ/ WPGTS*AFDNQCQNAALFWW NLHRSGEGSDTLHAGCPVLV GDKWVANKWIHEYGQEFRRPC
8587	38955	A	8644	2	505	AWLKDTVDPKLVTNLNHRIAAL TGLDVRPPYAEYLQV VNYGIG GHYEPHFDHATSPSSPLYRMKS GNRVATFMIYLSVVEAGGATAF IYANLSVPVVRVQ/WPGTS*A FDNQCQNAALFWWNLHRSGE GSDTLHAGCPVLVGDKWVA NKWIHEYGQEFRRPCSSPED
8588	38956	A	8645	298	401	KKSLLVRRSWRMKELKKKIGQ Y*KKLGRLLGKAI
8589	38957	A	8646	1	417	FRAAPAPESGGESVFGETHRAL QGAMEKLQR/RLWKEKVDLKE RVEKLELQFIHLSGQTDITGRK YISQAGVSETQHWE/KEDIVRL AQDQEEMKVNQLQELR/EQVLQ LVGDHKEGHGK/FLTIAQNPAD EPTLGAPIAQELGC
8590	38958	A	8647	2	430	AAVKPLGSAETAVPARLGCRR FSRRCRRRRGRGSLLSFSAK VAFFNSAGANAQEEQRVCQP LAHPVASSQKKPEVAAPAPESG GESVFGETHRALQGAMEKLQR/ RLWKEKVDLKERVEKLELQFIH LSGQTDTHNKISY
8591	38959	A	8648	1	2769	
8592	38960	A	8649	1	314	FVNLFEIPVRVVEFGATCRAVA EPEQQR*SPSARPRPCCPLASV AAAAAAGGAAAYCL SPRRR*GAVSARPAGEPREPHE WDRNRSDFKRRRRGRDG
8593	38961	B	8650	46	307	
8594	38962	C	8651	1	4584	
8595	38963	B	8652	438	532	
8596	38964	B	8653	832	927	

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8597	38965	A	8654	320	1136	RIMETIANI.SSQSPVSLPLRVGL AEYLEMEED/DL.DSEQAAPRPM PNIPGDLSEREP/QVAFNSAGA SAQEEQRVCCQPLAHPVASSQK KPEVAAPAPESGGESVFGETHR ALQGAMEKLQVTTLWKEKVD LKERVEKLELQFIHL.SGQTDITV SERI.GHRWGELPGHPRGSI*A MSSCRKVHQPGGSVRDAAALGE EDIVRLAQDQEEMKYNLQELR/ EQVLQLVGDHKEGHGK/FLTIA QNPADPTLGAPVAQELGCAD EQGGFYPRSPDC
8598	38966	B	8655	97	235	
8599	38967	A	8656	1	2104	
8600	38968	A	8657	3	1107	FMTTDERKLFNHLKSPHLKYW VPFIWFGNLTAKARNEGRIDS VDLQSLMTEMNRYRSWCSLLF GYDWVGIPLVYTQVVTAVYT FFFACLIGRQFLDPTKGYAGHD LDLYIPIFTLLQFFFYAGWLKVA EQLINPFGEDDDDFETNWCIDR NLQVSLLA.VDEMHMSLPKMK KDIYWDDSAARPPYTAAADY CIPSF LGSTVQMGLSGSDFPDEE WL.WDYEKHGHHSMMIRRVKRF LSAHEHPSSPRRSYRRQTS DSS MFLPRDDL S/HSQGP TGCA LKK PPQGLTHLE/DNPA SQKEAPRCT SAWESCPPSGRPARQALYRA*P HSPV*ELPPSKCHGT*GIDHSSR STSAHIRGLPP*FRYLHLEL
8601	38969	A	8658	3	397	
8602	38970	A	8659	346	474	

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8603	38971	A	8660	1	1344	MHSTWLFCFARLLKELPFQGL PRLTIRASARTPPAALERVTRD PCAATCLDRGSLKGLGHSPFQ SPPVTSHCAENPTLKAPPYV GATSALVLSLGGPVPWLSVEL SIRTFASSGLIYYMAHQNQADY AVLQLHGGRLHFMFDLGKGR KVSHALLSDGKWHVTVDYV KRKGFTVDGRESPMVTVVGD GTMLDVEGLFYLGGLP SQYQA RKIGNITHSIPACIGDVTVNSKQ LDKDSPVSAFTVNR CYAQAQ GT YFDGSGYAALVKEGYKVQS DVNITLFRFTSSQNGVLLGIST AKVDAIGLELVDGKVLHVN GAGRITAA YEPKATVLC DGK WHTLQANKSKHRITLIVD GNA GWR*KSHTPQSTPVD TNPIYV GGVYAGVKQCLRSQTSFRGC LRKLALFRGPQVQSDFDSRAFE LHGVLHSCPGTES
8604	38972	A	8661	3	92	
8605	38973	A	8662	2	158	HTFPTFSSSPHLVMMIQPSSSP PPPLPPPPSSPPLPLPPSPPLLL FFL
8606	38974	A	8663	21	471	DGPQDQPPHQPSSSPPPLPPP PFPPPLPLPPSPPLLLFFCDEA LLCCHTGVELFFVIFAYCSG/PE TEPAISPRYASSGLNGFPLPT PPA YA*IPSSGIHFNP SLAIPST TTTLV RPTTHHSRRPTTTQS STTAP SRLHP
8607	38975	A	8664	2	105	
8608	38976	A	8665	3	265	RKDL YANTALSGGTTMYPGIA DRMQKEITALAPSTMKIKIAPP ERKYSVWIGGSILASLTFQOM WISKQEY\DESGPSIVHRKCF
8609	38977	A	8666	3	757	NTPAMYMAIQAVLSLYTSGR TGIAMSDGDGVAHTVPIYEGYT LPHAILHLDLAGWDLTDYFMKI LMECSYRFTTMAEQEIVCDIKE KLCNIALDFEHKMATGASSSSL EKSYEVDPGQVITIGNEWF/*VP EALFQPS/MGMESCGIQTTFNS IMKCDVDICKELYAKMVLSSGT TMYLGIADRMQKEITALGRPST LRFRFIAPP/ERRKYSVWIGGSI LASLSTFQOMWISKQEYDES GPLHPSTANCF

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8610	38978	A	8667	3	171	CPLCRGNHWK VHCPSGR/MVP* VRSPQDDPTTGQRVP GASASS CHHPH*APGTFNH
8611	38979	A	8668	1	325	SPSRTCYQCGLQGHF*KDC/TSE KPPPRPCLLCQGNHWK VHCPR/ VTKVLWVRSPQDDPATGLRV PDD*EHTIRRAYALGKSAVTSK PPPPYPARSRLNVRRLCSLATN
8612	38980	A	8669	3	377	
8613	38981	A	8670	1	423	
8614	38982	A	8671	1	1659	
8615	38983	A	8672	1	1449	MVNDTRPKVQVEYKGETKIF YPEEVSSMVLTKMKEIAEAYLG KTVTNAAVTVPA YFNNSQHQA TKDAGTIAGLNVLRIINEPSAAD IAYGLDKKVGAEARNVFIFDLRG GTFDVSILIIQDGIFEVKSGDTHL GEEDFDNRIVSHFIAEFKHKYK KDTIRDVKLDKSIQHDIVSIGG YTHIPKIQKLLQDIFNRKELNKS INLDEAVAYGA AVQAAILSGD KSENVQDLLLLDVNPLSFGIEL AGGVMTV/LPVLIKHSTTIPTKQ TETF*QPIYSDNQPGVYEGECAM TKDDNLLDKFELTGIPSAPHGV PQIEVTFDIDANGILNVS AVDKS VGKENTITTTNDKHRLSKEDM NIWSAEKYKAEDKRQRDKVSS KNSLESYAFHMKATYKDEKLQ GKINGEDKQKILDKFNEVIKWL DKNQA AKKEFEHQQTLEKV CNLIISKRYQSAGGMPGGMFGG FPGGGAPPSSGASSRPITEVD

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8616	38984	A	8673	18	1388	TRLQLLGFLWLPSSLLEPGLHPS NHGPRGPAVGIDLTGTTYSVGV FQHGKVEIIANNDQGNRTTPSY VAFTDTERLIGDAAKNQVAMN PTNTSF*LPNGLIGR/RFD/DAVV IQSDMKHWPFMVVNDAGRPK APS*NTKGETKSLYPEEGVFLW V*PKMK/EICRSLTLGKTVTNA\ VVTVPVSIFYNDSQRQATKDAG TIAGLNVLRLNNEPTAAAIAYG LDKKGLEQKRNRAHLLTWGG GTFDVSILTIEDIGIFEVKSTAG DTHLG/GEEDFDNRMVNFHIAE FKRKHKKDISENKRVRRLRTA CERAKRTLSSSTQASIEDSLYE GIDFYTSTIRARFEELNADLFRG TLDPVKEALRDAKLDKSQIHDI VLVGGSTRIPKIQKLLQDFENG KELNKSINPDEAVAYGA AVQA AILSGDKSENVQDLLLDVTPL SLGIETAGGVMTVLKRNRTTI
8617	38985	A	8674	2	1559	RYLNLWIGTPTKGMSLKAFVQQ PHKSYWLKTL.PDNMEALQIR K*VPNIGTCAVSWLKGPCSDV AVKKFFIFSLGNYWEGN*LI*EH GYKVV*HSNSYLEPISPAQTPK KRTTSYFSTLLCLRSLCSFLK RIECYEVNYQLDEELDR*EPAP QSQGLDLSPSFDIL*DHQSRTV YYLMNIHVTPRSIYLCRHGESE LNIRGRIGGDSGLSVRGKQVG WATHQMGWLGCPRWAAGFP ILPSRPYPNAGVTLAAPVPTHDS VLPALPTRAGGQDETEPGLKAG PTGLPSAPPLEMGGGAPGKALS WMATPWCLPFCYVEVALTCAA PTVYQAVVWVLPPIHYLKCSPQT AGQMRQCSDMRPERGRDVSE GTRDHYRELREFNLWLIPPCQG LLPTSHMKRTIQTAEALGPVE QWKALNEIDAVRCMG*ISC/VW G*LESGLPLRDQDKYRYRYPK GEVRFAGWPNA*DYSVSSQL NVLLCHQASMRCLLAYFLIKS SGTTLISALGMFDGI
8618	38986	C	8675	16	206	
8619	38987	A	8676	157	413	ALVCS/SSLAIREMQIKTTMYRH LTPVRMAIKKSGNNRCWRGC GEIGTLLHCWLDCKLVLQPLWK SVW*FLRNLELIPFDPAIPLL
8620	38988	B	8677	877	2126	

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8621	38989	A	8678	1	1731	
8622	38990	A	8679	2	1675	
8623	38991	A	8680	1	2142	MIILIDAEKAFDKIQPFMLKTL NKLIGDGTLYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTTRQGC LSPLLFNIVLEVLAAQIRQEKEI KGIQLGKEEVKLSLFADDMILY ILENPIVSAQKLLKLSNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHHTLGPV VGWGKRGGIALVDIPNVNDKL MVLEVLARAIQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLSISNFSKVSGYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYREN DIPIKLPMFTFTELEKTTLKFIW NQKRACIAKTLSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSIYNNH LIFYKPDKNKKWGNDSL FNKW CWENWLAICRKLKLDPFLTPYT KIHRSWKDLNVRPKTIKLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIPYS DKGLISRIYKELQIYRKKTNN PIKKWAKNNMRHFSKEDIYAA NRQMKKCSSLVIREMQIKTTM
8624	38992	A	8681	1	1242	

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8625	38993	A	8682	14	1785	FDQVEERVSVIEDQMNMKRE EKFRKRVIRNEQSLQEIWDYV KRLNLHLIGVPESDWENGTKLE NTLQDIQENFPNLARQANIQIQ EIQRMPQRYSSRRTTPRHILNA HKRK*ERYKIDTLTSQLEKELEK QEQTYSKASRRREITKIRAELEKE IETQKTLQKINESRSCFEKINKID RLRLARLJKKKREKNQTDVIKND KGDITDTPTEIQTIREYYKHL YTNKLENLEEMDKFLDITYTL PRLNQEEVESLNRPIGTGSEIAHNSL PTKKSTGPDRTAEFYQRYKEE LVPFLKLFQSIKEGILLNSFYE ASTILIPKAGRDTTKKENFRPISL MNIDAKILNKILANRIQHIKKL IHYNQVSFIPGIQGFNICKSIN VIQHINRTKDKNHTIISDAEKA FDKIQQPFMLKTLNKLGDGT YLKIMTAIYDKPTASTILNGQKLE AFPLKTGTGRCGPLSPLLFNIVL EVLARAIQKEIKGILGKEEV KLSLFADDIMIVYLENPIVSAQT LLKLISNFSKISGYKINVQKSQV FPYTNNRQTESQIMSELLFTIAS KRKIYVVGQLTRDVKDLFKEN
8626	38994	A	8683	1	5127	
8627	38995	B	8684	1	1461	
8628	38996	A	8685	2	1879	
8629	38997	A	8686	1	1299	MKLPEEGSGSIICSAIFAVLQL PLVIHRQTGYGEDLQQTPTDLQ LRDLTDHSSSPAMEQSWMEND FDELNRSRLQKANKLENLEETD KFLDITYTLPRLNQEEETESLNRPI TGSEIAIINNVP TKKSPGPDGV TAKFYQRYKEELRTVKNHMI SIDAEKAFDNIQPPFMLKTLNK LGIDATYLLKIIRAIIDDKPTANIL NGQKLEAFPLKTGTGRCGPLSP LLFNIVLEVLAIRAIQKEIKGI QLGKEEVKLSLFADDIMIVYLEN PIVSAQNLLKLINNFSGVGYKI NVQKSQEFLYNNNRQTENQIM SELPFTIASKRIKYLGIQLTRDV KDLFKENYNPLLEIKKDTNK WKNIPCSWIGRINIMKMAILLK VIYRFNAIPKLLMIFFTELEKAT TLKCI* NQKRAHIAKPILSQKNK
8630	38998	B	8687	1	2187	

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8631	38999	A	8688	1	1698	MMGDFNTPLSTLDRSMRQKVN KDIQELNSALHHMDLIDYRTL HPKSTEYTFPSAPQRTYSKIDHI VGSKALLSKCKRTEIITNCLSDH SAIKLELRICKLTQNHISITWKLN NWLNDYWVHNEMKAEIKMF FETNEIKDITTYQNLWDTFKATL NQEEVESLNRPIGTSEIQAMINS LGTKK/SPGPDGFTAKFY/PE*H DCISRKPHRLSPKSP*ADKQLQ QSLRIQNCQSKITSILIHQ*QTNR EPNHE*TPIHNCIKDNKIPRSPY KGCEGFLQELQTTAQRNKR HKQMEEHMMLMDRKNQYHEN GHTAQGNL*IQCHPHQATNDL HRIGKKYSKVHMEPKSLHCQ VNPKPKEQSWRHHTT*LQTLQ GYSNQNSMVLVPKQRYRPMH NRALRNATYLPKSL*ET*QK QEMGKGFP*QMVLGKLASHM *KAETGSLPYTLYKN*FKMD*R LKCT*TNHKKPRRKPQYHSGH RHGQGLHV*NTKSGNKSQN* QMGSH*TKELLHSKRNYHQSE QATYRMGENFCNLI*QRANIQ NLQRTQTNLQ/RKKQPHQQVQ
8632	39000	A	8689	1	5073	
8633	39001	A	8690	128	1407	EKKASDDQTTSPSYRRKFKPKA KKLNTLKKI*TN/RITRITNREKC LKELMELKAKARELREECRSLR SQCDQLEERSVSMEEIQTTIRE YYKHLIYENKLQNLLEEMDKFLD TYTLRRLNQEEVESLNRPIGTSE IVAIINSLPTKSPGPDGFTAKF YQRYKEELIPFLKLFQSIKEGI LPNSFYEASIIIPKQGRDITTK ENFRPIFLMNINAKILNKILANRI QQHIKKLIHHDQVGFIPGMQG WFNICKSRNVIHHNRTKDKNH MIISIDAFAFDKIQPFMLKTL NKLGIDETLYKIJRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNIVLEVLARAIQKEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLFLISNFSKVS KINVQISQAFPLYTNYRQSAKS
8634	39002	B	8691	1	1443	
8635	39003	A	8692	1	1878	
8636	39004	A	8693	1	1479	

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8637	39005	A	8694	I	2091	MVFLEKISVGISRLSKQHPPFIR VALPLDADPTVSRIGSFQWVLG LADFRNEAVDPDRDVQMCPEFIP SGGFVVFLTSGVKPQTFTVSITA LKGEPTQMRNRQKTNNGNMTK LGYLTPOKNHTSSPAMSPNQEQ IPDSPEKEFRRTTEASLTGGTI NPIISWAVNGSGSKNLYHILGK GRKIFSSSGIKQKSIA SGERQNF QRNDQTAAFAVHENPLFCSHR CWYPGKQEKCLKELMELKAK ARELREECRLSRCDQLEERV SVMEDEMNEMKREGKFKREKRI KRNEQSLQEIWDYVKRPTLHLI DVPETLNAHKRQKERSKTDLT SQLKELEKQEQTHSKASRRQEI TKIRAELEIETKTLQKINESR SWFFERINKIDRPLARLIKRE KNQIDAINKDKGDIISDPTEIQT TIREYYKHLIYANKLENLEEMD KFLDTYTLPRLNQEEVESLNRP TGSEIVAIINSLPTKKSPPGPGST AEFYQRYKEELLISNFSKVSGY KINQKQSQAFLYTNNRQMESQI MSELPFTITSKRIKYLGIQLTRDI KDLFKENYKPLLNEIKEDRNKC KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLRMTFFTELEKTTL KFIWNQKRARITKSVLSQKNKA GGITLPDFKLYYKATVTKTAW YWYQNRDIDQWNRTEPSEITP
8638	39006	A	8695	I	3514	MELKTKARELREECRLSRCD QLEERVSAMEDEMNEMKREG KFREKRIKRNEQSLQEIWDYVK RPNRLRIGVPESDVENGTKLEN TLQDIIQENFPNLRQANIQEI QRTPQRYSLRRATPRHIIVRFTK VEMKEKMLRAAREKDRSTRQK VNKDTQELNSALHQADLIDIYR TLHPKSTEYTFPSAPHHTYSKT DHIVGSKALLSKCKRTEIITNYL SDHSAIKLELRINKLTKSRSTTW KLNNLLNDYW
8639	39007	A	8696	I	2091	

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8640	39008	A	8697	1	2781	MGKKQNRKTKNSKKQSASPPP KERSSSPATEQSWMENDFDEM REEGFRRSNYSLEREDIQTGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRLRS RCDQLEERVSVMEDEMNMEN DGENGTKLENTLQDIQENFPN LARQANVQIQEIQRTPQRYSSR RATPRHIIVRFTKVEMKEKMLR AAREKDFKPTKIKRKEGHHYIM VKGSIQQEELTILKIYAPNTGAP RFTKQVLSDLQRLD
8641	39009	A	8698	1	1584	MSISGTVRMSAKSKGNPSSSCP AEGPPAAASKTKVKEQIKIIVEDL ELVLGDLKDVAKELKEQHWW HPISGDTATSICTVLESEKSKIK VTAFDVWLHLWGKGTDKQKD SSNFCRLKCPCLTALKRAVVLP ARSWRCENGQTASSSGSLTPDP RAANREAPPSSRGRLTPHTASDG ENGTKLENTLQDIQENFPNLAR QANIQIQEIQRTPQRYSSRKATP RHHIVRLTKVEMKEKMLRAARE KEIQTAIREYYKHLYANKLENL EEMDKFLDAYTLPRQNQEEVE SLNRPITGPEIVAIINSLPTKKSP GPDGFTAIFYQRYKEERHINRT KDNHMIISIDAFAKFNKIQQPF MLKTLNKL.GIDGTYFKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QECPLSPLLFNIVLEVLAIRAQ EKEIKIGLKGEEVKLSLFVDY MIVHLENPIISAQNLKLIISNFSK VSGYKINVQKSAFLYTNNRQ TESQIMSELPFTIASKRKIKYLGQ LTRDVKDLFEEND

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8642	39010	A	8699	1	1722	MAGYPSEMKLPEELSGSNICCS AVFTVLQPLLIPRQTGSGVDL RQPTDQLRLVLTVRRKNNKQ KRTSTPKPHLYVTHKDKQRSKKL TQNHSTTWKLNLLNDYVWV NNEMKAEIKMFFETSENKGTIY QNLWDTFKAVCRGKFIALNAH KRKQERSKIDTLTSLKLEKQ EQTHSKASRRQEITKIRAEQKEI ETQKTLQKINESRSCFFEKINKI DRLLARRIKKKREKNQIDAIGN DKGDIADPTFETQSTIREYYKHL YTNKLENLEEMDKFLDTYTLPR LNQEEDES LNRPITGSEIEAIINS LPAKKSPGPDRTFAEFYQRYKE ELHINRTKDKNHMTISVDAENA FDKIQQPFMLKTLNKLVLVLA RAIRQEKEIKGIQLGKQEVKLSL FADDVIVYLENPIVSAQNLLKLI SNFSKVS GYKINVQKSQAFLYS NNRQTESQIMNELSFTIASKRIK YLGQLTRDVKDLFKENYKPLL NEIKDDTNKWKNI PCSWVGRIN IVKMGI LPKVVYRFNAIPKLP M TFFTELEKVTTLKFIWNQKRARI AMTILS*KNKAGGITLP
8643	39011	A	8700	3	1033	
8644	39012	A	8701	1	1068	ANKLENLEETDKFLDTYTLPR NQEETESLNRPITGSEIEAIINNV PTKKSPPGPDGVATKFYQRYKEE LRTVKNHMHISIDA EKA FDNQ QPFMLKTLNKL GIDATY LKIIIRA IDDKPTANILNGQKLEAFPLKT GTRQGCLSPLLFNIVLEVLA RAIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLI NNFSKVS GYKINVQKSQEFLYN NNRQTESQIMNELSFTIASKRIK YLGQLTRDVKDLFKENYKPLL NEIKDDTNKWKNI PCSWVGRIN MKMAILLVIVYRFNAIPKLLMI FFTELEKVTTLKCI* NQKRAHIA KPILSQKNKAGSITLR
8645	39013	B	8702	69	1055	
8646	39014	B	8703	1	2301	
8647	39015	A	8704	1	3189	

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8648	39016	A	8705	92	1139	ASAADTQANRVWSPFPANSNR PAAIRVLTVRRKTNKQKGHPH QNPICTPSSSKTEIQTTIREYYQ HLYTNKLENLEEMDKFFDTYT LPRLNQEEVESLNRPIGTSEIAI INNLP/TKSPGPDGFTAKFYQS VGSSGQGNQAGEGNKGHSIRK RGSQIVPVC R*HDCISRKPHRLS PKSP*ADSQLQQLRIQNQC AKI TSILIHQ*QTNREP NHE*TPIHNG FKQNKIPRNPAYKG CERPLQGE L*TTAQ*NKRGYKQMEHSMML MGRKNQYHENGHTAQGNL*IQ CHPHQATKNFLHRIGKNYFKV HMEPKKGPHCQVNP KPKEQSW RHHTT*LQTLQGYSNQNSI
8649	39017	A	8706	1	2199	
8650	39018	A	8707	1	2238	
8651	39019	A	8708	3	1889	RSMRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTEYTF SAPH HTYTKIDHILGSKALLRKCKRT EITNYLSDHSAIKLELRINKLTQ NRSTTWKLNLLNDYWVHN KMKAEIKMFETNENKDDTTYQ NLWDAFKA/EIQTTIKEYYKHL YANKLENLEEMDKFLDTY TLP RLNQEEVESLNRPIGTAEIVAIIN SLPTTKSPGPDGFTA EFYQRYK EELVPFLKLQFQSIKQGLPNSF YEASTILIPKGRDTEKENFRPI SLMNIDAKILNKILAKRIQQHIK KLIHHDQVGFI PMQGW FNIHK SINVIQHINRAKDKNHIISIDA EKAFDKIQORFMLKTLNKL GID GTYFKIIRAIYDKPTANIILNQ KLEAIPLKAGTRQGCP LPLLFN IVLEV LARVIRQEKEIKGIQLGK EEVKLSLFADDIMIVYENPIVT AQNLLKLISNFSK VSGYKINVQ KSQAFLYTNNRQTESQIMSELP FTIASKRIKYLGIQLTRDVKDLF KENYKPLLKEIKEDTNKWKNI CSWVGRINIMKMAILPKVIYRF NAIPIKLPMTFFTELEKTK/FIWN QKSAHITKGILSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN

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8652	39020	A	8709	1	1779	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDYRTLH PKSTEYTFFSAPHHTYSNIDHIV GSKALFSKCKRTEIITNCLSDHS AIKLELRKKLTQNHSTTWQLN NLLNDYWVNNEMKAEIKMFF ETNENKDDTDQNLWDTFKA VC RGKFMALNAHKRQERSKMG TLTSQLEKEKQEQTHSKASRR QEITKIRAELEKIEI/QKTLQKIN ESR/TEIQTITREYHKHLYANKL ENLEEMDKFLDTYILPRLNQEE VESLNRPTVGTSEIEAIIINSLPTKK SPGPYGFTAIFYQRYKEELHIN RTKDKNHMIIISIDAEKAFDKIQ QPFMLKTLNKLGDGTYLKILR AIYDKPTANIILNGQKLEAFHLK TGTRQGCPLSPLFNIVLEVLR AIRQEKEIKGIQLGKEEVKWSL FADDMIVYLENPVSTQNLFKLI SNFSKVSGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLGQLTRDVKDLFKENYKPLL NEIKEDTNKWKNIPCSRAGRINI VKMAILPKVIYRFSAPIKLPMT FFTELEKTKFIWNQKRAHIAKS ILSQKHKAGGITLP

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8653	39021	A	8710	1	2093	MEITTNCLSEHSAILQLRIKKL TQNCCTTTWKLNYLLNDYVW NNEMKEEIKMFFETNENKDTT YQNLWDVFKAVCRGKFIALSA HKRKQERSKTDLTSQLKELEK QEQTSHKASRRQEITKIRAELEK IETQKTLQEINDSRSSFSEKLNKI DRPLARLIKKREKTQIDAIAK DKGEINTNPTEIQTIREYYKYL YANKVENLEEMDTFLDITYTLP RLNQEEVESLNRPTGSEIEAIIN SLPTKESPGPDGFTAIFY/HEGN QERERNKGYRIRKRGSHIVPVC R*HDCLFRKPHLLSSKSHEAVK QLQQLRIQNWAKITSMMPVH Q*QTNREPHE*TPIHNCYKEN KIPRNPTYEGCEGPLQGELOTT AQQNKRGQKEMEKHSLMDR KNHYHENGHTAHGNL*IQCHP HQATNDFLHRIGKNYVNFHME PKKSLHCQENPKQREQSWRHH AT*LQTLQGYNSQNSMVLVPK QIHRTMEQNRGLRNNTTHLQPS DL*QI*QKQEMGKQFPI**MVL GKLASYM*KAETGSLPYTLYK N*FKMD*RLKC*T*NHKNPRRK PRQYHSGHRHGQGLHD*NTRS NGNKNQNRQMGSN*TKELLHG KRNYHQSAQTTYRMGENFCNL PI*QRANIQLQRT*TNLQEKNK QPHQKVGKGHEQTLLKRRHLC SQQTHEKMLITGHQRNANQN

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8654	39022	A	8711	3	1805	PLSTLDRSSRQKVNKDIQDVISA LHEAGLIDIVRTLHPKSTEYTF SAPHHTYYKIDHIVGSKALLSK CKRTEITTNCLSDRAIKLELRI KKLTQNYTTTWKLNNLLSDY WVNNEMKAEIKMFFETNENKD TMYQNLWDITKAVCRGKFIAV NAYKRKQERSKIHTLTSQLEP EKQEQTSHSKASRRQETIKIRAE KEIDTQKTLQKISVSRWFSERI NKIDRLIARLMKKKREKNQIDA IKNDKGDITIDPTMQTTIREYY KNLYANKLENLEEMDKFLDTY ILPRLNQEEVELPNRPITGSENE AIINSLP/TKKSPGPDEFTAKFYQ RYKEELQGMQEKEREDTQLG KEEVKLLIFAEDMIVYLENPV SAQNLLKLINNFVKVSGYKINV QKSQAFHLTNNRQTESQIMSEC PLTIASKRIKYLGIQLTRDVKDL FKENYKPLLNKIKEDTNKWK IPRSWLGRNNIVKMTILPKVIYR F/NTLNFIVNQERARIAKTILSK KNKAGGITLPDFKLYYKATVT KTARYWKQNIKKGSVWPISLK SEKRGHRTPLWKLCHNDVQG ELLKTIQFLFGSPLGHSSLDPSA
8655	39023	B	8712	1	1743	
8656	39024	B	8713	1	1260	

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8657	39025	A	8714	1	1842	VPP TTCGNYGSTIQDEIWMGTQ NQTISVSEEMMFQAEIISAQK MWNQHHITPSKVDHIVGSKAL FSKCKRTEIITNYLSDHSAIKLK LRIKKLTQNRSTTWKLNLLLN DYWVHNEMKAEIKIFFETNEN KDTTCQNLWDTFKAMCRGKFI TLNAHKRKKQRCIDTLTSQLK ELEKQEQTHSKASRRQEITKIRA ELKEIEAQKTLQKINESRSWIFE KINKTDRLLARIKKKREMNQI DAIKNDKGDITNPTEIQTIRE YCKIILYANKLENLEEMDKFLN TYTLPRLNQEEIESLNRPIGTSEI EAIINSLPTKKSPGPDGFTAEFY QRYKEEMIEKKA FDKSQPFM LKTLNLGIDGTF LKIRRAIYDK PTANII LNGQKLEAFPLKTGRQ GCPLSPLL FNIVLEVLAREIRQG KEIKHIQLGKEEVKFSLFADDDVI AYLENPIVSAQNLLKLISNFSKV SGYKINVQLQAFLYTNNRQTE SQIMSEFPFTIASKRIKYLGIQLT RDVKDLFKENYKPLL NLIKEDT NKWKNIPCSWIGRINIMKMAIL HKVIDRFSAPFKL/PKD/FFTEL EKTTLKFIWNQKRPRISKTLISK KNKAGGITLR

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8658	39026	A	8715	I	1593	MGKKQNRKTGNSKKQSTSPPP KERSSSPAMEQSWMENDFVEL REEGFRRSNYSELQEDIQTKGK EVENFEKNLEECMTRITNTEKC LKELMELKTKARELHEECRSLR SRCDQLEERVSAAMEDEMNEMK REGKFRKRIKRNEQSLQEIWD YVVKPNLHLMGVPESDGENGS KLENTLQDIQENFPNLRINKI DRPLARLIKKKREKNQIDTIKN DKGDITNTPEIQTTIREYYKHL YANKLENLEEMDTFLDTYTLPR LNQEEVESLNRPTGAIEIVAIINS LPTKKSPGPDGSAIEFYQRYKE E/PADKQLQQLSIQNQCTK/TSI LIHQQTNRPNHE*TPIHNCFK ENKIPRNPITYKGCEGLLPGLQ TTAQGNKRGYKQTEHSLML GRKNQYRENGHTAQGNF*IQ HPHQATNAFLHRIGKNYFKVH MEPKKSPHRQVNPKEQSWR HHTT*LQTLQGYSNQNSMVLV PKQGYRSMQNRALRNNAAYL QLSDL*QT*EKHAMGK/EFPI**
8659	39027	A	8716	I	1578	MGDFNTTLSTLERSARQKVNK DIQELNSGLHQADLIDIYKTVKP KSTEYTFFGPHRTYSKIDHIVG SKALLSKRRTEITNCLSDHSA IKLELRICKLTQNRSTTWKLN LFLNDYVWHNMKAIEKMFEE TNENKDTTYQTLWDTFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTHSKVSRRQEI TKIRAELEKIEIETQKTLQKINESKI QTTIREYYKHLYANKLENLEE MDKFLDTYTLPRLNQEEVESLN RPITGSEIEAIINSLPTKKSPGPD GFTAIFYQRYKEE/RPISLMNID/ AKILNKILANGIHDIKKLIHDD QVGFIPGMQGFNIRKSINVIQ HVNRTDRKNHMIISIDAEKAFD KIQQPFMLKTLNKLIGDGMYLK IIRAMYDKPTANILNGQRLEAF PLKTGTTRQGCPLPFLFNIVLEV LARAIGQEKEIKGIQLGKEEVK LSLSADDMIVYLEKPIISAQNL KLISNFSKVS/GYKINVQKSQAF LYTNNRQTESQIM
8660	39028	B	8717	I	2982	

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8661	39029	A	8718	617	1155	SIAYQKSPGPDGFTAEFYQRH KEELLISNFSK/VSGYKIDVQKS QAFLYTNNRQTESQILSEFPFTI ASKRVGYLGQLTRDVKDLFKE NCKPLLNEIKDKTKWKWNIPCS WVGRINIMKMAILPKVIYRFNA IPIKLPMTFFTELEK/TLRFIWN QKRDHIAKSILSQKNKAGSITLP
8662	39030	A	8719	1	1827	MGKKQSRKTGNFKKQRHLSFS KGIAVLHQQWNKAGQRLTFDE LREGFRPSNYSKLQKEIQTGKG EVENFEKNSDECITRITNTKKCL KELMELKAKARELREECRLRS RCDQLEERVSGMEDEANEMKR EGKFGEKRIKRNEQSLQEIWYD VKRPNLRLIGVPESDGENGTKL KNTLQDIIQENFPNLRANQIQI QEIQRTPQRYSSRRATPRHIVR FTKVEGKNIGSQRERAEIQTIT REYYKHLYSNKLLENLEEMDKF LDTYTLPSLNQEEVESLNRITITG SEIVAIINSLPTKSPGPDGFTAE FYQRYKEEVVPFLKLFSIEKE VILPNSFYEARIIIPKGRDTTK KENFRPISLMNIDAKILNKILAN RIQQHIKKLIHHDQVGFIPGMAI RQEKERKGIQLGKEEVKLSLFA DDVIVYLENPVSAQNLLKLISN FSKVSGYKINVQKSQAFLYTNN RQRESQIMSELPFTIASKRIKW GIQLTRDVKDLIKENYKPLNEI KEDINKWKNIPCS WVGRISIVK MAILPKVIYRFSAIPIKLPMTFFT ELEKTTFK/FLWNQKRARIAKS ILSQKNK/AGGITLPDFKLYYKA

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8663	39031	A	8720	I	1551	MEKFLDITYTLRLNQEELES LN RPITGSEIEAIINSLPTKKSPGPD GFRAKFYQRYNEELVPFLKIF QSIEKEGILPNSFYEASHILPKPG RDTITKKDNFRPISLMNIAVKILN KILANQIQKHIIKKFIIHDQVGF PGMQGWFNIRKSNVQIHINRT KDKSHMIIISIDEEKAFDKIHLPF MLKTL SKL.GIDGMYLKIIRAIY DKPTANIILNGQKLEAFPLKTGT RQRCLP.SLLCNIVLEVLARAIR QEKEIKGIQLGKEEVKLSLFD DMIVYLENPTVSAQNLLKLISN FSKVSGYKINVQKSAFLYTNN RQTESQIMSEL.PFTIASRKIKYL GIQLTRDVKELFKENYKPLLNK IKEDTNKWKNISSWWMGRANIM KMAILPK/VTWMKLEIIVLSKL P QEQTCKHRMFSLTGVFIEGRAL QNKSETSQSRHPGATHSLPEYTI PGSSPSNFYWFTLGLKEEVTSG WKREKKKKRKEGGKEGRKEG RKEGRKEGKKEGRKKGRKEVP
8664	39032	A	8721	I	1983	
8665	39033	A	8722	I	2436	
8666	39034	A	8723	I	3139	
8667	39035	B	8724	I	3558	
8668	39036	B	8725	I	2133	
8669	39037	A	8726	I	3051	MGDFNTALSTLDRSMRQKVNK DIQELNSALHQADLTDIYGLH PKSTECTFFSAPHHTYSKIVHIV GSKALLSKWKREIHTNCLSDH SAIKLELRICKLNQNCSTTWKL NNLLNNYWTNK/KKREKNQI DA/IKNDKGDIITNPTEIQTIRE YYKHL YANKLENLEEMDKFLD TYTLRLNQEEVESLNRPITGSE IEAIINSLPTKKSPGPDGFTAIFY QRMNYSIFKSTWKIINKNAYS LA HSRELRDGGQ
8670	39038	A	8727	I	2706	
8671	39039	A	8728	I	2573	
8672	39040	B	8729	70	2029	
8673	39041	A	8730	81	385	
8674	39042	A	8731	301	515	SSWQAPAPVLGSSWASKK*MK KKYAAQIEKQKSP*CKSIKSP LRSASYAQLLSFSLSSCLCFSTC HSTLA WYCL*SSWQAPAPVLG SSWASKKRSLLWKESRSLPSF SITARS*ACCCCLSTSEPQLLKA QYLLSHSRTRSFRLQ

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8675	39043	A	8732	2	4207	DTHRLKIKGWRKIYQANGKQK KAGVAILVSDKTEFKPTKIKRD KEGHYIMVKGSIQEEELTILNIY APNTGAPRFTKQVLRDLQRDL DSNTIITGDFNTPLSTLDRSMRQ KVNKDIQELNSALHQADLIDIY RTLHPKSTENTFFSAPHHTYSKI DHIVGSKALLSKCKRKEIITNCL SDHSAIKLELRIKKLPQNCSTIW KLNNLLNDYWVHNEMKAEIK MLFETNENKDTTYQNLWDTLK AVCRGKFIALNA
8676	39044	A	8733	1	2770	MGKKQNRKTONSKTQASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKGE VQNFENLEECITRITNTEKCLK ELMELKTKARELREECRSLRSR CDQLEERVSAEDEMNEMKRE GKFRKRIKRNEQSLQEIWDYV KRPNRLRIGVPESDVENGTKLE NTLQDIIQENFPNLRANVQI QEIQRTPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKEIQT TIREYYKHLYANKL

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8677	39045	A	8734	3	2169	FKPTKIKREKEGHYIMVKGSIQ QEELTILKIYAPNTGAPRFTKQV LSDLQRDLDSHTLIMGDFNTPL STLDTSTRQKVKKDTQELNSAL HQADLIDIYRALHPKSTEYTFFS APHITYSKIDHIVGSKALLSKC KRTEIITNYLSDHSAIKLEIRIKN I.TQNHSTTWKLNLLNDYVW HNEVKAIEKVFFETKENKDDTY QNLWDAFKA VCRGKFIALNAH KRKQERSKIDTLTSQLEKEKQ EQTHSKASRRQEITNIRAEKKEI ETQKTLQKINESRTEIQTIREY YKHLYANKLENLEEMDKFLDT YTLPRLNQEEVESLNRPTGSEI VAIINSLPTKKIPGPDGFTAEFI QRYKEELVPFLLKLFQSIEKEGI LPNSFYEASIIIPKPGRDITTKKE NFRPISLMNIDAKILNKILAKRI QQHIKKLIPHDQVGFIPMGQGW FNIRKSINVIQHINRAKDKNHMI ISIDAEKAFDKIQPFMLKTLNK LGIDGTYFKHRAIYDKPTANIIL NGQKLEAFPLKTGTTRQGCP LSP LLFNIVLEV LARAIRQEKEIKGI QLGKEEVKLSLFADDMIIYLEN PIVSAQNLLKLISNFSKVSGYKI NVQKISQAFLYTNNRQTENQIM SELPFPIASKRIKYLGIQLTRDV KDLFKENYKPLLNEIK\EDTNK WKNIPCSWVGRINIVKMAILPK LIGNCSKISGYKINVQKSQAFLY
8678	39046	A	8735	1	5166	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRSNSYSELWEDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELHEECRSLRSR CDQLEERVSA MEDEM NEMKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIHQENFPNLARQANVQI QEIQRMPQRYSSRRATPRHIIVR FTKVEMKEKMLRAARQKAPH HTYSKIDHIVGSKAL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
8679	39047	A	8736	1	4553	MGRKNRRLDSRQHSYTSQSRSHEDPAAVLQALSSSGVVIIYQSLVAVQSPLAAPGCDGSRCEVRGLTVGSRYGSRWLAGCRDNEMVNACQSGWCYQNLTVLRGWKV LLEMTPHHTYSKIDHILGSKAL LSKCKRTEIITNYLSDHSAMKR ELRIKNTQNRSTTWKLNLLNDYVWHNEMKAEIKMFFETNE NKDDTTYQNLWDIFKAVCRGKFI ALNAHKRQKERSKTDTLTSQL KELEKQEQTTHSKASRRQEI
8680	39048	A	8737	1	2673	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDINRTLH PKSTEYTFSSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNTQSRSTPWKLN LLLNDYVWHNEMKAEIKMFF ETNKNKDDTTYQNLWDFAKAV CRGKFIALNAYKRKQERSKIDT LTSQLKELEKQEQTTHSKASRRQ EITKIRAELEIETQKTLQKINES RSWFFERINKIDRPLARLIKKKR EKNQIDITIKNDKGDITDTPTEIQ TTIREYYKHL YANKLENLEEM DTFDLYTLPRLNQEEVESLNR PITGSEIVAIINSLPTKKSPGPDG FTAEFY/PESYL*QTHSQYHTEW AKTGSIPFENWHKTGMPSLTAP IQHSVGSQGGQNGAQEGGNKY SIRKRGSIQVPCV*HDCLSRKP HRLSPKSP*ADKQLQSLRIQN QCTKITSILIHQKQTNREPTHE* TPIHNCFKENKIPRNPYKGCCEG PLQGEQTTAQRNKRGHKQME EHSMLMGRKNQYRENGHT/SQ GNLQIQCHPHQATNDFLHRIGK NYFKVHMEPKSPHRQVNPKP KEQSWRHHTT*LQTLQGYSNQ NSIMVLVPKQRYRSMEQNRL RNNAAYLHYSDL/*QT*EKQA WGKGIP/IYKMA/LGKLA/PM*
8681	39049	B	8738	1	2792	
8682	39050	B	8739	156	391	
8683	39051	B	8740	1	2824	

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8684	39052	A	8741	3	4167	PLSTLDRSTRQKVNKDIQELNS ALHQVDLIDYRTLHPKSTEYTF FSVPHHNYSKIDHIVGSKALLS KCKRTEIITNCLSDYNAIKLELR TEKLTQNRSTTWKLNPNLLND YVWHKEMKAEIKMFFETNENK DTTYQNLWDAFKAVCRGKFIA LNAHKRKQERSKIDTLTSQKLE LEKQEQTTHSKATRQEITKTRA ELKKIETQKTLQKINESRSWFFE KTNKIDRLLATLIKKKREKNQI GARKNDEGAITTN
8685	39053	A	8742	1	1107	MKVEIKTFETNENKDTTYQNL WDTFKAVCRGKFIALNAHKRK QERSKIDTLTSQKLEKQEQT HSKASRRQITTIIGEYKHLTY NKLLENLEEMDKFLDTYTLPRLN QEEGESLKRPMAGSEIEAIINSL PTKNSPGPDRFTAIFYQRYKEE L/PDKQLQQLRIQNQWEKITSI PIHQ*QTNREPHE*TIHNCFK ENKIPRNPTYKGCEGLPQGELO TTAQRNKRGHKQMEEHSMLM DRKNQYCENGHTAQEETAFCF HSRRESSRLGLLVANFRACHQE RFRRRERSVPAGVHAEAHPCWE NRGREERHWEQHPGPETVLLQ AGGHVCDQGLHHGQPQVGQV PRGSRGHSQHFLPSVQDRSWL
8686	39054	A	8743	1971	5654	RSPTAGRNTNYPSTRDYKHLTY A/NKLENLEEMDKFLDTYTLPK T/ITQEEVESLNRPITG/SEI/AVI NSLPTKKSPGPDGFTAKFYQRY KEELHINRTKDNHMIISDAEK AFDKIQPPF/MLKTL/NELGID GT/YFFKIIRAIYDKPTANIRLE WGQKLEAFPFEKLAQEQQMPL LLNPLPQSNIVVGKFLA/RAIRQ EKEIKGQVEKQEVKLSL/FADD MIICLENPIVSAQN/LKLSISNVS

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8687	39055	A	8744	1	4901	MTGSNSHITILTLNINGLNSAIK RHRRASWIKSQDPVSCCIQETH LTCRDTHRLKIKGWRKIYQAN GKQKKAGVAILVSDKTDKPT KIKRDKEGHYIMVKGSIQEEEL TILNIYAPNTGAPRFIKQVLSL QRDLDSHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTEYTFFLAPH HTYSKIDHIVGSKALLSKCKRT EITNYLSHSAIKLELRINKLTO SRSTTWKLNLL
8688	39056	A	8745	2	1887	SASVVPASGLRPSSTSLTSRQP RFLGLLRSHPALVA VPGDW DLAVCCIVAPSHVCRMVFMMD RTLGLSLPGLLKREEDACWVEA NINGRVLAQCNIDELKKEMNM NFGDWHLFRSTVLEMRNAESH VVPEDPRFLSESSSGPAPHGEPA RRASHNELPHTELSSQTPYTLN FSFEELNTLGLDEGAPRHSNLS WQSQTRRTPSLSSLSQDSSIEI SKLTDKVQAEYRDAYREYIAQ MSQLEGGPGSTTISGRSSPHSTY YMGQSSSGGSIHNSLEQEKGD SEPKPDDGRKSFLMKRGDVIDY SSSGVSTNDASPLDPITEDEKS DQSGSKLLPGKKSSERSL/FQA SLK/LKGRGLRLSKLP/SEEDEC GAEESDNTPLLKDDKDRKPEG KVERVPKSPHVSVEPIRTFIKAK EYLSDALLDNKGNSSDSVSD PRES/SPNHVSAQCKCADLDP LKRHNLI/ELDDSHSGKRG/PH SLSGLQDP/IIARMSICSSEDKKSPS RIASLD*PSSPLEENW/P/ACQKA YNL/NRTPSTVTLNNSAPANR ANQNFDMEGIRETSQVILRPSS SPNPTTIQENLKSMTHKRSQR SSYTRLKSEPELHAA/SSSESTG

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8689	39057	A	8746	1	385	EGNEAQTCSFWNTRQLASS DPSLSVSQRMDPSWRRSSHSWP QPMPPDSGRAPVRPHLAKLEED VWPCPQFHQTAAASGPPFVTFQ PANCFPSVISFHLCHTWSEQD RAYHPVYQMR**GSDVQLLEY EASAAGLRSFSERFPEDGPELE EILTQLATADARFWKGPSEAPS GQ/ALRK/SVWPCPQFHQTAA SGPPFVTFQPANCFPSVISFICT AIRGVSKTGLTILSTR*NGSSE KSLV
8690	39058	A	8747	2	2015	QDFLDSQNLASAYNTRLFKEVD GEGKPYEYVRLASVLGSEPSLD SEVTSKLSYEFRGSPFQVTRG DYAPILQKVVEQLEKAKAYAA NLSHQGQMLAQYIESFTQGSIE AHKRGSRFWIQDKGPVIESYIG FIESYRDPFGSRGEFEGFVAVV NKAMSAKFERLVASAEQLLKE LPWPPTFEKDKFLTDPDTSLDV LTFAGSGIPAGINIPNYDDLRTQ EGFKNVFAGGIVLGCGLTPRK REK/LTFLEEDDKDLYLWKGPS FDVQVGLH/ESLLGHGSGKLFV QDEKGAFNFDQETRDPQKRG EQIQSWNRTGETWDSKFSTIAS SYBECRAESVGLYLCLHPQVL EIFGFEGADAEDVIYVNLNM VRAGLLALEFYTPFAFNWRQA HMQARFVILRVLLEAGEGLVTI TPTTGSDGRPDARVRLDRSKIR SVGKPALERFLRLQVLKSTG DVTTEGRALYEGY*STVTDAPPEA CFLTLRDTVLLRKESRKLVSQP NTHLEGNE/VSDVQLLEYEASR AGLRSFSERFPEDGPELEEIFIQ LATADARFWKGPQ*GPHSGPS LRKIVVALPPKFHQTAA/SGPS HSVCVFRGWGGGAGAWTLV LPQLEGW*HNPLPICQHVSSLP NCFPSVIL/SICTAIRGVSKTGL TILSTKMRNGSSEKSLV
8691	39059	A	8748	1	519	
8692	39060	A	8749	786	864	
8693	39061	A	8750	1	468	

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8694	39062	A	8751	128	605	MTWGTVPPLHFQMRCCWVSC QGIMRGWGLCSQTLNCLLSK C*TCSSGGGQIWSRKFRVVRVE *G*GNFKTPQLQPGVPPGLPP PGSCFKCRKSGHWAKECPQPGI PPKPCPICAGPHWKLDCPTRLA ATPRSPGTLAQGSLTDSFPDIDRG LAVED
8695	39063	B	8752	1	615	
8696	39064	A	8753	1533	1767	PSPTCPAIYS*KGGWSQRHSQG ACYTCRKSGHWAKECPQPGIPP KPRPICVGPB*KSDCSTHLAAN PRAPTLAQGS
8697	39065	C	8754	84	329	
8698	39066	A	8755	911	1497	SQRKARDQRRKRNRASSIAK HKEPKRPILPSGKNSQEGVATH TKPLAQGGVWLD/NETNEIPN ANFRQQIRKLIKDGLILRHRKPV TVHSRAQGWKSTLARRKGRHL GIESKKIDRHMVHSLYLKLGKN VFKHKRILTEHSHKLKADKAR KKPLADQAEARGSKTKEARKL REEHLQTKKEEIKTLSQEEKAK
8699	39067	A	8756	34	280	EVIHAAIGEEKGSY/NA**PWVE EQLTRQPLIHHQPASLHVSYY/RC RYHSLYLKVGKGVFNKRIILM EHIHKLKADKARKKLLA
8700	39068	A	8757	1	692	AFLQELCLKSSTGELFPFAAV AAALSMLRLQKRLASSVLCCG KKNIWLD/NETNEITNANSRQQ IRKLIKDGLIIRKP/TVHSRLRC RKNT/LAR/*KGRHMGIGKRKV PANA/RMP/KEVTWMRENEGF CRR/ASEDTRES/KKIDRPHVVT ALYL/LEVKGNVFKNKRIL/MEHI HKLKA/DKARKKL/LAD/QAEA RRSKTKEATKRREERLP/ARPK REII*TLKSKEETKK
8701	39069	A	8758	46	131	
8702	39070	A	8759	5	447	PATELPGLPTRPGMLCIWRGAP DWPEGPPSSGELSSIQPTQGLHN CFQPDGARPAAPGPVPQGLGAL PWSCRPPAEPTLFMESLVQWPP GDGIRQ*CEDAAELREPGVQRH QGSPG*VRTLPPLRGPSQVPA/G SSSSASPRSPGSRG

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8703	39071	A	8760	1	201	MPNIYTMEEYAAVKKDEFMSF VGTWMKLETHLSKLSQGGQKTK HRMFSLIGTRMKLETHLSKLLQ GQKNQTPYILTHRISFEDVRNY MPLAVIHSDESPILPLHEQQDAS ENGWIKDTERDADLEIYIVSGIG SFRWVVLGLADFKSEAADPCGM KLQTFVAVSVTALKGGASRVVH SSWWVCVLTDFRSEAAYLSVT ALEGGASRVVAHSSRFVVSLSG VKLQTFVTNATAHKGSADPKS EQHQDLLQRAKKHTFHSMKGE PRRVVAAGWGGAIKADSNLI LLFQTIEKYCPWFPDKGSDVLL DWDVRVGTTLQLMRDGVLLPI SVWTDWALIRVALLPFQSGDTL QLPQVNADVEPLPLPCIGGITG PEGGDPGPGSFHYLVGVYYFLT CRSTWEQRKSPVALR**KLGPG GSPSGPVMPPMHRGKSGSGTS ALTCGS
8704	39072	C	8761	42	179	PKTLKMGGGTAGLVGMGFSTT
8705	39073	A	8762	11	1713	QRTPSAPGRPHPCRGAP/GSPG KAGLFLQRPRLGTGL*GSAPRG PG*MGCPGTGRGNSNRH*RGPP RRPQAS*AAPFQPGPLETWTPG *SQVPGAPSPCNFSYPHREVPP WGPVPPAPHGSCGWALALPR RKRAAVFSSWAPGQAGQLLDA ASVGAAP*QDIPPCRGSAPS SPHPPPGLESGBK\PGAASWAGP QTPFSGRAQQLCQEGPAGAGN TSGRSA*AASAGTCDGPRSGGR VRTYPGLP*CRWTPGSRSSAAS SHHCRMPSPGGHCTRLSMKRV GSAGGRQLQGRAPS*PARGT*Q RPRGGQSLGAAPLESRH*DGEC *AFWRAETVRSSVQRRREFATG LSGPSS*PRWSTCSVP/ASSPGG GDVAGPQEGPRSFHCLPSCL*V RPSHPEGDAAP*GALHK*RMII EEGRPGPCGGWGLV/GSWEPV QGCRRLNLRWGRAWNCLQFPE *PPGGPGLADSGFIQTARLNFQ GWASVSFSIKRPGRAILRPCPTS EFLLPESFVSGNCSSITERAMWP FWAPPSPAPGAENFPCASVPCK

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8706	39074	A	8763	1	409	LTHLTAQNVPNLFARNERVICL FDTEFGPMAQILVGATIVGSIET VWAGTITPPREGIIRWTPWAG ENDGVSALLKGQEMGRFKLGS TVINLFAPGKVNLEQLESLSV TKIGQPLAVSM*SKATQLGNPR
8707	39075	A	8764	1	1528	MTFVNAQAEDSQIFLYKRRVVP VEGYAPWLVSNGASELERIHYE GMDDVILLDFLPKELGDFMNM HILSFAPGANHGYIEHTFKEHG GATQAFAKENNHKAYKDTYG VSHITRHDMLQIPKQQQYKEYQ DTHIDTPYCEPLPGETRLWGD DVIGLFDADTMDNDVVAILENH PLLGAGFAHKIEQLEDKDWERE WMDNFHMPMRFERLWICPSWR DVPDENAVNVMLDPGLAFGTG TIQTLSPAMLDSTHTRRMRS TLNLYEITRMSTVSTSEHSMTY TLVQVDMKEAQKPDATASYRTF NEFFVRPLRDEVRPIDTPNVL VMPADGVISQLGKIEEDKILQA KGHNYSLEALLAGNYLMADLF RNGTFVTTYLSPRDYHRVHMP CNGILREMIYVPGDLFSVNHLT AQNVPNLFARNERVICLSDTF GPMAQILVGATNGGSIETPESE GATVDES FVVGPGVGD FELL LC IQERSALSGRCVI*SFNSAKVRFI QQSRRPVKS A
8708	39076	A	8765	2	420	QNFKEIFVRPLRDE/VRPIDNDP NVLMVPADGVISQLGKIEEDKI VSNLFARDERVICLFDTEFWPN AQ/ILVGATIVGSIETVWAGT/IT PPREGIIRWTPWQAIEDSWQ NLGRVAG*NKLPTEL CN NFDW AQTLSRRNRG

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8709	39077	A	8766	1	1130	MHFAKKEDVSEITGSDGEKPK ARAGCLIGNSERLFSVTFVQF QATLPLSYTIMKHKDTGTSSVP ESIDASLEASQQNPAPFLKTLTRS CSPSWPCSRNWPHELLPLTCPA QAGATPQLPGLGPPGHLPMNQ PASSFPPRPNAASQILTSTFHKP PPGSSLACCCCPGCDWQEDSQ *PTPACPSWPPWPTQLSPSAAGS PNIHSPIQGFHSQLLS*RSPTTEE P*EANKLPPWTGHRPEPHPLGL PGHIPCAAG/MHRPLAPTTA/RPL ATLHGERQRHLHPGQRRRVPR APAESTEAPALWLHRPPECPEC SGHGPAALEQAGAMA*CRSCR HLPFCFGEADAGSREGPHQEV PRSKICQPPQAASFRICLHSIF
8710	39078	A	8768	179	1908	KKQNKSRGCVNVNWMRRALK MCIPYRNGHSIFLVMVKVERSK RFALKLSVAEKNQMPRNATVIE NSAGYSYGKMAFS*PRICTQIV GPRIISTTAVIS/SQPATHHRATR GAIIRTAFCGPGCFGAGDTPINNG LSIRHTTRNFPNREGSKPANGQ MSAVALMDARSIAATAANGGY LTSASELDCWDNVPEYAFDVTP YKNRVYQGFVKGATQOPLIYG PNIKDWPELGALTDNIVLKVCS KILDEVTTTDELIPSGETSSYRS NPIGLAEFTLSRRDPGYVSRSK ATAELENQRLAGNVSELTEVFA RIKQIAGQEHIDPLHRVYRHCS RSGNCPSDVFDISKDPVQDHRP QKRVTLIWGYDIHPQIEIIQTGD NFFQFRAIANNFGFLRFYQIRHF GLSGQHGVQIFTADVERGVGL RLQRFPVVKHAIQVQRQVEVIAV AHIEVQADIFRSFRAIEANGHK VEQHFDHRPANGVRGTGGAVA ELMHPFAQLFRAGQVETAPCG GLGLIAQLFKVIRLQILRGESKK FSANLTALKLPLPMVYEGDKV LKHLRLPKFNLPLVPQPKKML
8711	39079	B	8769	1	1881	
8712	39080	A	8770	2093	2287	

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8713	39081	A	8771	1	1358	MKINLKLTDNSKVADGQFANI VVFLINWFYIHATTCEIDNGGVI VADGQFQASKAYSADSIVDYN AHYKTSVDQDAWGFVPGGDN PWKKYEPAKAWSASTVYVKG DRVVDGQAYEALFWTQSDNP ALVANQNA TGSNSRPWKPLGK AQSYSNEELNNAQFNPETLYA SDTLIRFNGVNYISQSKVQKVSP SDSNPWRVFVDWTGKERVGT PKKAWPKHVVYAPYVDFTLNNH HRRTDSFRSKATAELENQRLAG NVSELTEVFARIKQIAGQEHDP LQTEIGSMVYAVKPGDGSARE QAASCQRVIGGLANIAEEYATK RYRSNVINWGMPLQMAEVPT FEVGDIYIIP/GIKAALDNPGGT FKGYVIHEDAPVTEITLYMESL TAEEREIIKAGRIRHLLSDAMLA HLIRPTNRIESVGQIRHFRSIRHL LSDAMLAHLIRPTNRIEP
8714	39082	B	8772	21	1623	
8715	39083	B	8773	32	1850	
8716	39084	A	8774	1	1193	MSEVEAAAGATAVPAATVPAT AAGVVAVVVPVPAGEPQKGGG AGGGGGAASGPAAGTPSAPGS RTPGNPATAVSGTPAPPARSQA DKPVLATRLVPGTAKRFNVRS GYGFTNRNDAKEDVFVHWA VKRNNPRKFLRSVRDGETVEFD VVEGEKGAQATNVTGPRAAGV PMKGSRYAPNRRFR*FIPRPPS VAPPPMVAEIPSAAGTPGSKGE RAEDSGQRPRRWCPFFFYRRR FVRGPRPNQQQPIELTGAFACS QGTDRVEPKETAPLEGHQQQG DERVPPPRFRPRYRPRFRPRQ QPTTEGGDGETKPSQGPADGSR PEPQRPRNRPRYFQRRRQQA PPGQQAAGPRQPAAPAEAPTEAIK P MIAHDGHAPPNPSTCCLEPSY QLVDVN

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8717	39085	A	8775	3	933	RHQESLCAPLEILQKKKCPCLE EPLQROPCPCQSSSEVTA**NISF RFASPGGN/SPWASH*APSVRG AAPAGPVGLEAAAGSEPHGP/ PDAGGARVPVGGAGSRPRMVL/ SPRSAPHLGGGRSA/PAMRTGN PCTHTQVVTTSPNLPNIP*GAKS HPI/VERPLS*KGTGPSAQIATE NIYP*QLHGKGLIRD*KIVPHD GAAGQSPLLPVRSCQRGYLP SAK*FFDALKIKFTLKFHLRRFSC TSLRLGLLVSPLLPVRLLAG WAHAWMHGCGGWEPRTQQR ASCQLPDRTKSKMRVKIPAANS SWLCH
8718	39086	A	8776	3	925	RGSEQIPSSIPGAP*KMLFPSG/ SSEPEHL*TVPASSLGCRRPGGPV ASRSRPPRPPARAALRGPPASSP IRFP*GASPRAPPTS*MRSGAGS KT/TPRPGPSASGDRPAPCVRG PGCGSEPAASSPTGPAGVPRA R*GPGHGQTSPHGW*PSSMQQ RTRRCSPSSVPGQFLLP/LSCS QVSPWTW*GLPYSLLIPVSSLLP WPEDRVPSFVA/GPLPSFDNTS LPVEGGS*LHPVCLLYVYQENS SKHIPYSCRGSRIFPFSQRQVRM AGQRKLCDHPGGLISKPLAWT RIPEAPVVAAMVEGGGGL
8719	39087	A	8777	144	503	
8720	39088	A	8778	15	427	
8721	39089	A	8779	1	1055	
8722	39090	A	8780	280	1480	FQTRMGISVATIPGTSCSWSMR ASEKEKDTFESTVQVSKLQDLI HRSKMARCRGRFVCPVILFKGK HICRSATLAGWGELYGR/QATT YFFSGGADDAWADVEDVTEED CALRSGDTHLFDKVRGYDIKLL RYLSVKYICDLMVENKKVKFG MNVTSSEKVDKAQRYADFTLL SIPYPGCEFFKEYKDRDYMAEG LIFNWKQDYVDAPLSIPDFLTH SLNIDWSQYQCWDLVQQTQNY LKL.LLSLVNSDGGTDSKSLVAI RTSVGVALAQTSGNALAYGTK KAQEQSQDGLIHTSLKPTILYL TVAYDWFLFGHMLVDRLSKGE EIFFFCFNFLKHITSEFSALKTQ RRKSLPARDGGFTLEDIC*DE RTVAVPPDLVCDCLPGHGEFPR

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8723	39091	A	8781	2	588	HSFFFFNREKCKTKR*RLSASRF PP*PWSRLPSG/QPAGGASAGSP SAPRGTRGAGSRPAHG/VQPP RAHPEAPCPACPRSVGGAR/RA PEPSSNLSGEAPASGDRDVPVPPS PLAR*VPLGGREFGWPWANA L.RPGKTP/RSDRV/SRSPWS/PAG FSVPASWPRRSTSGNRGPPSRFS RLSRTSGPLNRLGEFFDVQGPL
8724	39092	A	8782	1	198	
8725	39093	A	8783	1	275	MAGAPAPASLPPCLSIDCCAS NQRDSDMGVGPSEPGAGYNLVP VIEKRSIRVGVTFGRCCPSPSL TRKGNLTPWASQVRQCLAL QLAH
8726	39094	A	8784	349	478	KLKFPYTEELSSGLYIGISLCP HKYNCLVSSHRCCKN*VTGY
8727	39095	A	8785	1	325	FSEGNLYLVGIMHPLKAMLPL QYQTETFPFGYLM/PCRLQQ SHLLTLRDCCASNQRDSVGVGP SEPGAGYNLVRRFLSLLEKRSI WVRVTRFSSALNHELKVNNDH
8728	39096	A	8786	113	313	
8729	39097	A	8787	2	1991	
8730	39098	A	8788	512	1178	
8731	39099	A	8789	135	1562	DTLVPTSQGDISRGLEGNLNSC PT*Q**RAPFLWCQ/PKAEWGT WIFNPEAEESLEPRSLISDCCAN NQRDSDMGVGPSEPGAGYNLVP RSFLSPSEKRSVRGVTRLSRCR PSPLSLTQKGNPLTPCASQVRQ CLALLRLRHVYFYFNGWKDYG VASLTTILDMVKVMTFALQEG KVAIHCHAGLGRGTGLIACYLV FATRMATDAQIIFVRAKRPNISQ TRGQLLCEAQSGAFSADVSGS HSPGEPVSPSFANVHKDPNPAH QQVSHCQCKTHGVGSPGSRVQ NSRTPRSPDCGSSPKAQLFVE HETQDSKDLSEAAASHALQSEL SAEARRILAAKALANLNESEK EELKRKVVEMWQKELNSRDGA WERICGERDPFILCSLMWSWVE QLKEPVITKEDVMDLVDRAD AAEALFLLEKQHQHTILCVLHC IVNLQTPVDVEEAFLAHAIAKAF TKISIIIVNQNPVETVLL
8732	39100	B	8790	563	2017	
8733	39101	A	8791	108	194	
8734	39102	A	8792	1	164	

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8735	39103	A	8793	1	1068	MEESSRYWGTGRNRRREGKLIKQ WAQAPALFNIRQGPNEGDNQQ GSYWEALASIMQIHLLVPSGLG MVTAFHCSWYLSTTATFPGLV NPALTEIKSGNYYVHGSFILQV ADYKEFQTLMLMITKATFHQKTQ CWACEEGVQQSFHCPCRMQAA ASVERYTELLKEFLKEHTCDN QEPTSTLHYHSLKTVHIHVYSS RCTLPCQPSQAAQAEIGSPAP ACEDFVFAALAPP/ESG/RCPTL RLLGGLCTPTNARRTRTHSTTA CWARAQWDSLGLPLKLSHR/PR VCGGTRAPGRQCGMGNQRLGT SNSEARDPGGLRVKHR/CEAIQ EPPNRSRRQGAPLHSPPAY*MS SWRP*SFSKRHNLS
8736	39104	C	8794	78	331	
8737	39105	A	8795	129	1734	QWMHRMLDIFKGSQQHPSVPR VSSRPPLGPQGYSLHHFGTQGI HSATPINTQGLQAPAMGTQQPQ PEGKTSAAVVLADGATIVANPIS NPFSAAPAAATTVVQTHSQSAST NAPAQGSSPRPSILRKKPATDG MAVRKTLIPQPHDVASPRVES SMRSTSGSPRPAGAKPKSE/STC LWPLRSLCPWRLYPIKIMISLPL PSLKLPSPPHPPFQL*LQQPVPR HNQPLPFQPFLESPSLHPSPLA HCTTSISHCGWQSFRLGLGPSRS* N*SERRSRTNGYHEASFVSPPL ATNTVPSPLALLANNLSMPTSD LPPGASPRKKPRINNSMWISTEE GDMMETNSTDDEKSTAKSLLV KAEKRKSPKEYIDEEGVRYVP VRPRPITLLRHYRNPWKAAYH HFQRYSDVRVKEEKAMLQEI ANQKGVSCRAQGWKVLCAA QLLQLTNLEHDVYERLTNLQE GIIPKKKAAATDDDLHRINELIQG NMQRCKLVMDQISEARDSMLK VLDHKDRVLKLLNKNGTVKKV SKLKRKEKV
8738	39106	A	8796	1	169	RPTRPKSNKRQCLVFVTPKKEE EPVRNILEKFTNISGKVRSLYL HAPLLPLER
8739	39107	B	8797	156	398	

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8740	39108	A	8798	20	723	VWGGELPRIWFMLPTSHQWM LFSVFLGWGSCQWSCSHLLSCL WRAAFSEFPLGPEPGEGIPELC LCFQMEAIELSVDPKSNKRQCL VFVTPKKEEPPVRNILEKFNTISG SK/CTEVQRGVYIPGHIR*R**SI PRGF*FYSK*GRPDSAGGHGPG GVLQGEKGHSACARQGGRFQE GAAFAQRETAGRRVGQRWCG DCFRTPVHRKSLSSPNFGGFGA GSEAVPCHLVLYLVW
8741	39109	A	8799	79	256	LRLLTLFFQNLLGGKSSMLWTA HPCPEGACSSCTSLGSHLLSS FPVLGR*PGPSGDH
8742	39110	A	8800	402	996	TFFKFPPDSGAQLASPRGSRIGA AGGAA/SSPEPSAALLSPWVVD GTGRPGAGGGARRGGSGCTGA HGGGGSSGM/VG/PAGPEPCPA GRQLRPGEKSSAAPLREPASAL AGPERGSHSAAAG*RAPO/GRQ SGSPGRGGAESERGL*GLPSCC HLSPGSGAAAVPRSVGSRWPC GA/PTLATPPTSAFFSAATPEGP PLAS
8743	39111	A	8801	7	602	TFFKFPPDSGAQLASPRGSRIGA AGGAA/SSPEPSAALLSPWVVD GTGRPGAGGGARRGGSGCTGA HGGGGSSGM/VG/PAGPEPCPA GRQLRPGEKSSAAPLREPASAL AGPERGSHSAAAG*RAPO/GRQ SGSPGRGGAESERGL*GLPSCC HLSPGSGAAAVPRSVGSRWPC GA/PTLATPPTSAFFSAATPEGP PLAS
8744	39112	A	8802	262	349	KEGEGGK/DP*PVRMCPKPSG HWKHPGE
8745	39113	A	8803	2271	2863	GGASGVVRSWWARGLAGFRS EAADLRGLPVELRASAPCVRT PQPLGGR/GIGRPGAEGGPCWG GSGRTGAHGGAGAGSSLGQP RKGLPQCSGG/PEGLLKCGQSG SPGRGRAQSERGL*GLPACCHL SH*PQGRQI*PRTCPTPFQSKTS DQGGPSGPAVSGSERQV*LHHQ *PGCRDYLCGFCSWEINPVWG

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8746	39114	A	8804	3	561	NCPSLLVESCFCQECGSSIPFALPS TQVEHALYASER*QRAGSPHSP HSLSVPLPGLPLWRHLRSPS/G PPLH*PP*ASTLTGGPQ*RLGSA GINVSSEPVSSSRPNV*SFFFPQY TVTLVKGWSREPSPKSSVLGS/ MVP*STKSEP*REPI*SLTGKA GERGEKGREKAIGSGR*GVAKC SDHVR
8747	39115	B	8805	298	380	
8748	39116	B	8806	1	1292	
8749	39117	A	8807	1	1224	MKPRTLAVSVTALKVARLEFV PSDVRMCSEFLPSGGLVVSLAS GVKLQTFVSVTARNVDPKN SGAQLASPGSSTRAASGAAC* SPSPPPCARTPQLGGR/GTGCP GAGGGTRRGGSGRTGAHGAAE GVGSLGLQPRKGPPPTVQWWAE GLLCKRQSGSPGRGGAESKRGL *GLPASTLSMPPGIECAGKSENS HMNLNCSGGSLPGGTGAHLPL GPDGQPAETLLWGPCGCGPG TGLTSGQTISLGCQGGQPRRE VKPPVPQRVSVLLVAVNPPDS RCRVETDRPWLRCIQSCLCGTL KRDVLHSPSVFNTTRGGTAE WSREDKDALLPEYALHMPFAV GFKLEYKEGVLSNLAAGPEK ELCEAKRNQCPKSGVSHTSRPL KPEWSDFAEIDESKLPRDS
8750	39118	A	8808	1	1298	ESLRAGSFQEQIPELAPLIILRG FGTWPGWSFQATGFCVGVVRGS PGSGFRGCGAYRAP*SFRTQLW PWQLQGLDPKPLKDALARPSPL GRRACAEHHLCSADERPDLGFE GLQRWGGCRGSQKPAVHQ WGRGCEGTGGGHTGSPPPRLTP P/PGGSGFRAQPGERRPAACGQ QRALGPMRPPAC/GPSPT*GCA LNPTSPPALV*GFIHIVAAFCF VTPVSKSHSFQLGGELRVAGSD VGGRWGERENTQGSTLPPSSPAS SPGSPSPDPATPPGPATPGLIDIL LLLPMVASSRKHDFSGFSGRLP PQGEFFQ*GPTGWQSWVWPLD PSYLGCGCGGCGQGPRTGRRG ASSHCCVPAAP/GLSMDCSRGS GGSPRSPPWALLGDLPSLET VCLVMMFPCPIWMASEFAMEI QLLGPFWQIMLIGLCW

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8751	39119	A	8809	2	662	RIPLLVTRLKINEKVLQVLTNIF LFHDFSVQNFIFGLQLSLEHFY SQPLSVLCCNLPEAKRRINFLSN NQCENIRRLPSFRRYVEKQASE KQVALLTNERLYKKEETQLLEN VLHVYHMNYFLVLRCLHKFTSS LPKYPLGRQIRELYCTCLEKNI WDSEYASVILQLRLMAKDEL MTILEKCFKGFKSYCENHLGST A*RIEEFLGQFQSLDEPRGR
8752	39120	A	8810	326	1215	NPILHGNFIFMLDHSKLVQDQ E*TLN*/HYGPQVVTMCQCSFIE RNKRIPVVQGIIRGRGHVQWG RYVEKQASEKQVALLTSECL KKETQLLENLHVYHMNYFLV LRCVHKFTSSLPKYPLGRQIREL YRTCLEKNIRNSEEYASVLQLL KMLAKDELMTILEKCFEVFKSS CEKHLGSTAKRIQEFQAQFQSF DETKENEALKREEGCPNITPDI CIAKYLYLECRRLINLVDYSQA FATILTAEEKMDANSTSEEMN EIIYAWCIRTVFLELLGFIKPTK QKTDHVARLT
8753	39121	A	8811	70	613	SLEMKELRRSKKQTKFEVLRE NVVNFIDCLVREYLLPPETQPL HEVVYFSAAHALREHLNAAPRI ALHTALNNPPYYLKNEALKSE EGCIPNIA/PDICIAYKLHLECSR LINLVDWSEAFVVTAAEKM DANSASSEEMNEIHARDIRAVS ELELLGFIKPTKQKTDHVARLT WGCG
8754	39122	C	8812	598	762	
8755	39123	C	8813	138	296	
8756	39124	A	8814	1	395	

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8757	39125	A	8815	2	1289	DDLALAFKVLHDKQRGPTGF YAPFNSRPL*KPQLAHSIILMET ATERISRLLLPFADQHV EIPSLT AGNIALTVGLKHTATGDTIVSS KSSALQLV EPNGREKRSTDK TMKAERLLLAGSGRFQEPVFFC TIGTPITV*GSQIWEHAFEMSFS VRIPVLKVR LDPDSGGQTVLCG MGELHIEIIHDRIKREYGLETYL GPLQVAYRETI LNSVRATDTLG *EL*GDKRHLVDLLGSGKARPI ETSSVMPVIEFEYAESINEGLLK VSQEAIENGIHSACLQGPLLGS IQDVGNYLYIP*QIHPWAPSTTY DFCLCLKMPCKKALERKADKQ VLEPLMNLEVTVARDYLSPLV ADLAQRRGNIQEIQTRQDNKV VIGFVPLAEIMGYSTVLR TLTSG SATFALELSTYQAMNPQDQNT
8758	39126	A	8816	545	849	LAIHLSSLN SRHDDEATRTSTSE GLEEGEVE/GETLLIVES/EDQAF S/VDLSDHQSGGISLNSDEGDVS WMEEQLSYFCDKCQKWIPASK ELLNSFDLSIPV

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8759	39127	A	8817	1	2395	MDSSIHLSLISRHDDEATRST SEGLEEGEVEGETLLLIVESDQA SVDLSHDQSGDSLNSDEGDVS WMEEQLSYFCDKCCQKWIPASQ LREQLSYLKGDNFFRFTCSDCS ADGKEQYERLKLTHQVVMVL ALYNLSLKGSGRQGYFRWKED ICAFIEKH*TFLLRNKKKTSTCR STGAGCLSVGSPMYFR*GA*EF GEPRWWKLVHNLPLTMKPERE KTAASTLNIFAASKPTLDPITVE GLRKRASRNVPESAMELKEKR SRTQEAKDIRRAQKEAAGFLDR STSSTPVKFISGRRPDVLKLG EVIDFSSLSSDRTPLTSPSPSPS LDFAFGTPASHSATPSLLSEAD LIPDVMPPQALFHDDDEMEGD GVIDPGMEYVPPAGSVASCPV VGGRKKVRGPEQIKQVESEEE KPDMDIDSEDTDSNTSLQTRA REKRKPQLEKDTKPKEPRYTPV SIYEELLLKRLAECPGAVAMT PEARLKR/KLIVRQA/KRDRGL PLFDLDQ/VVNAALLVDGIYG AKEGGISRLPAGQATYRTTCQD FRILDYQTS/LPSRKGR/HQ/T TKFLYRLVGSEDMADVDSIVSP YTSRLKPYIRSDPHWTEPDAP LDYCYVRPNHIPTNSMCQEFF WPGIDLSECLQYPDFS/VVVLV KKVIIAFGFMV/DVKYNEAYI SFLVHPNWRRAGIATFMIYHL
8760	39128	A	8818	3	364	GDSVPTAEGGDQVCVILSSVPQ TVWEPMFNKRACG/P*SP*SLSA TSIYPRELKAGTKDTCPPVFR AVLFTTATQCPSTDAWMNKM WYSRTMECYSALKRKEIPPHAT ARHPMCLQFCRW
8761	39129	A	8819	292	508	ARPGDQATSGGQGTTFQHPLFC FELGGSQNPALQ*PFAAACPVG AD*TKFTAFCCRLK*KRTCCCL SLGSRCL
8762	39130	C	8820	253	369	
8763	39131	A	8821	295	393	IYFGCLLGEPVVAAEAGIWDN DCVKKQLLHSW
8764	39132	B	8822	91	479	

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8765	39133	A	8823	I	544	ARHPDMKKRRVEDASILPCNVSL EYEKTEVNSGFFSKSAEEREKL VKAERKFIEDRVKKIILKRRKV CGDSDKGFVVINQKGIDPFSLD ALSKEGIVALRRARRRNMERLT LACGGVALNSFDDLSPDCLGH AGLVYEYTSAPCPKQSGLCILSS TLGEEKFTFIEKCNNPRSIVTLLI KGPKNHTLTQIKDAVRDGLRA VKNAIDDGCVVPGWCRCRKGW AMAEALIP*APVLKGRAQLGS PKHLLDAFAHYFPKVLCFRNSG FLTQGNILKFKAEHSRIQVQL VGVDLNTGEP/MVASRSKAVW GHT*LW*KKTSLPSTPTW*IA\ TNILLGLNEIMRAGMSFS*KGF VVINQKGIDPFSLDALSKEGIVA LRRAKRRNMERLTACGGVAL NSFDDLSPDCLGHAGLVYEYS PACPKQSGLCILSSTLGEEKFTFI EKCNNPRSCHIIDQRTK
8766	39134	C	8824	636	1025	
8767	39135	A	8825	33	1505	KCISASVKVDFSDLLLSNNTS*S AFTPTRTQKSSSKLLRKESHYS GMMSIQEKSSENSKVTKKSD DKNSETEIQDSQKNLAKKSGPK ETIKSQA KSSSESKINQPELETR MSTRSSKAASNDKATKINSKNT VTVRGYSQESTKKKLSQKKLV HENPKANEQLNRRSQRLQQLT EVSRRSLRSREIQGQVQAVKQS LPPTKKEQCSSTQSKSNKTSQK HVKKRVLEVKSDSKED/GKSSN **SNKFS/SKGKNAR*NIR/SACA CSSQCTQGSEKCPQKTTRRDET KPVVPVTEVKKRSMATSVVPK KNEMKKSVHTQVNT/KHNTPK KSTAISA*TK**AGASRKEQTR *YSPA\REEIAGEIESDNVEVKK ESSQMESVKEEKPSKLEETSV ERQILHQKGTNQDVQCNRRFFPS RKTKPVKICILNGINSSAKKNNS WTKIKLSKFNSVQHNLDSQVS PKLGLFTNQFTTSFRNASSSDS KYIFRDKAT
8768	39136	A	8826	I	394	AISRALGRYVLPCLIQDGFVA HTAHAILTSLED/SL*MFQPKTC WCL\AN*HDTLSVNMETPHPSF QEELSGLLLLKMLRSPIEASKD KDKVKNSAVRALGNLLHFLQP SHIE*PTFAQINEEAIQALIS

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8769	39137	A	8827	52	730	KSACDALSSILPEAFRNLPNDR QMLCITVLLGLNDSKNRLVKA ATSRVALGVVYLFPCRLQDVIFV ADAANAMVMVMSLEDKSLNVRA KAAWSLGNLTDTLIVNMETPD PSFQGRVLWSPALENGYDQAL EASKDKDKVKRHA/VRA/LGNL LHFLQPSHI/GKTPHLQKFJ*GSL SRALNELLF*QKLA MKVRWNA CYAMGNVFNKPALPLGTAPWT SQAYNALTSVVT
8770	39138	B	8828	47	1576	
8771	39139	A	8829	2	2753	
8772	39140	A	8830	1	273	
8773	39141	B	8831	104	206	
8774	39142	A	8832	1	987	
8775	39143	A	8833	111	2187	DERRVGAADMFGRSRSWVGG GHGKTSRNIHSLDHLKYL YHVL TKNNTTVTEQNRNLLVETIRSITE ILIWGDQNDSSVDFDFLEKNMF VFFLNILRQKSGRYVCVQLLQT LNILFENISHETSLYYLLSNYYV NSIIVHKFDPSDEEIMAYYISFL KTLSLKLNHNTVHFFYNEHTN DFALYTEAIKFFNHPEMVRJA VRTITLNVYKVDNQAMLHYIR DKTAVPYFSLVWVFIGSHVIEL DDCVQTDDEHNRGKLSDLVA EHLDDLHYLNDILINCEFLNDV LTDHLLNRLFLPLYVYSLENQD KVFLIIHHAPLVNSLAEVILNGD LSEMYAKTEQDIQRSSVLP TLSS LWQGSLSLNLQSLGHLKCSS HLCGAQAAADSVTGEIPAIRSL EWLISAGSKARTFFFLKMLIGF WEKVDCEYQRRQVLSTRLQEA LPSNRLTDVA AVHSSCMLGFGS TAPRGSWGDPAAVHLPLPGEI AEHLGSKGTTT VTKHQPAKPS IRCFIKPTETLERSLEMNKHGK RRVQKRPNYKNGVEEEDKEG PTEDAQEDA EKA KGT EGGS KGI KTSGESEEIFMVIMERSKLSELA ASTSVQEQNTDDEEKSAATCS ESTQWSRPFLDMVYHALDSPD DDYHALFVLCLLYAMSHNK/G KSPEKEEGLSGTQSHPGKAGTF GKEGAEEERKRAQV

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8776	39144	A	8834	1	3050	RNLLVETIRSITEILIWGDQND SVDFEFLEKNMFVFLNLRQKS GRYVCVQLQLTLNLFENISHET SLYYLLSNVYNVSHVHKDFDSD EEMAYYISFLKTLKLNNHT VHFFYNEHTNDFALYTEAIKFF NHPESMVRVIAVRTITLNVYKVS LDNQAMLHYIRDKTAVPYFSN LVWFGSHVIELDDCVQTEEH RNRGKLSDLVAEHLHLHYLN DILINCEFLNDVLTDLHLNRLF LPLYVYSLEN
8777	39145	A	8835	111	270	
8778	39146	A	8836	240	406	
8779	39147	C	8837	86	286	
8780	39148	A	8839	172	243	DPS*EARSMLLLFLPPDHSLP H
8781	39149	A	8840	280	526	GRNAVVSQ*AHCRSQTGPQK*S SL/LVFPSWYTRHMPHLAN* KKFFLHRDGLDMLPRLVWNS WPQVILPQPPKALGILL
8782	39150	A	8841	3	1785	VLDARNAGAGGLAGPAGVLR RASRCDPGAAVAGQGGAARV PGRAAAPSPGPPGGA*CVPTDA GAGPGSAGARQLPFAAGALS HSGHC*RGLRGPGLASPAQAK AAWSGILLSPAAAGRDGGRGH NPRDPPPLREHGPPIPGFHGDR G*ELYQCHLGGEGG/GPDKPGS PCASCGLDGHWYRALLETFRP QRCAQVLHVVDYGRKELVSCSS LRYLLPEYFRMPVVTYPCALYG LWDGGRGWSRSQVGLKTLIL GKAVNAKIEFYCSFEHVYYVSL YGEDGINLRNVFGVQSCCLAD RVLQSQATEEEEEPETSQSPAE EVDEEISLPALRSIRLKMNAFYD AQWKENGYYRAIVTKLDDKSV DVFLVDRGENSENVDIINMLL RFLTNOEQEGETISKVIAQAGY AKYQEFETKENILVNAHSPGHV SNHFTTESNKIPFAKTGEQEQ AKRENKTTSVSKALSDTTVVTN GSTELVVQEKVKRASVYFPLM QNCLIEIKPGSSSKGELEVGVTE VRVSYVENPGYFWCQLTRNIQ GLKTLMSDIQYCKNTAAPHQ RNTLACLAKRTVNRQWSRALIS

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8783	39151	A	8842	2090	2901	THLLVPGMQPLTWQMPFSPFLS ISPTRSNLPSAATPVIAQWA/HE QSGHGGRDGGYTWAQQHGLA FTNTDLA/FVNAKIGFAYPVCDA SAKTTIRGLLECLIRCDGIPHSIA SDQARIHRSRNQEEVEVEVAPLT ITPSDPLAKFLISVPVTLRSAGL EVLVPGEGLMPPGNTRTIPLNW KLRLPPGHFGLLLTISQEAENG VTVLAGVIDLDYQDEISLLHN GGKKEYARNTGDPGLRLLVLP CPVIKINGKLQPNPGGTTNGS DPSGMKV
8784	39152	A	8843	1	585	
8785	39153	A	8844	1	1697	MDKYFMIKTPKAMATNTIDK WDLIKLKNFCTAKETMIRVNR QPIECKMFAIYPSDKVILLFKM APKRNAEGLSTVSTCKKAAMC LIEKGCELVGVPVGPQTHPVVTS PVSECIIGIDILSGWQNPHTSLT GRVKAIMVAKDKLKPLEPLPG KIVNQKQHCIPGWIEISA/TIKD LKDAVIGIPLTPFNPSPIWPVQK TNGSWRMTVDYHKLNQVVTPI AAAAPDVVSWEQINTSPGTCL HWWPHGEFPLVDREERTRW FTDGAQYAGTTQKWTPAALQ PLSRSTLKESECFIHGHGIPHSIA SDQGTHFMKKVRQWAHAHEI HWSYHVPHPYEAAGLIEKWNG ILKPQLQCQLGDNLTQGWDKV LQKALYALNQHSVYGTISPIAR IHRSRNNQEEVEVEVTLPIITPD PLAKFLLPVPSTLHSLDLEVLVP EGGMLPPGHTAMIPLNWKRLR PPGHFGLLLPLSQAKKGIVVL AGVIDLDYQNEISLLHNGGKE EYALNIGDPLGHLLVLP PCPVIN VNGKLQPNPGRITNGEDPSG MKVCVTPPGTTITTKKP
8786	39154	C	8845	1	720	
8787	39155	A	8846	57	261	WNF/CDPGGPMMKL/FISFKLKT ISSTFLSPTCLVL*RRPSRSASSL TVLCTTTTRSSSPLLALV*TWTP
8788	39156	B	8847	1	1158	
8789	39157	B	8848	1	2523	
8790	39158	A	8849	3	375	
8791	39159	A	8850	3	169	DFQPFRVTVHWGKGNDQTFR GLLDTGSELTLIPGDPKHHYGP PVKVGAYGAQQL
8792	39160	A	8851	3	376	

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8793	39161	B	8852	1	592	
8794	39162	A	8853	1	319	
8795	39163	A	8854	1	1071	
8796	39164	C	8855	1	862	
8797	39165	A	8856	1	1488	MGRARRLTVPVIALWETADGS RALTVETTVTLQHLNVTGII FRGGRGQVAAVNCQKRDIQPF TRVTVHWGKRNDQTFQALVDT GLELTLPQDPKHHCDPPVKVG AYGHQVINGVLAQIQTIVGPVG PWTHPVVIFTVPKCIIDILRW QNSHTGSLTGRMKAIMVGRK WKPLELPLPRKTVNQKPYHTPV GTAEISATMKDLKDAGVVIPTT TLFNSPIWSVQKTGGSWRMV DYCMLNQVVSAAVEIVLDVVS LLEQINTS/P/WP*SGSCTAAFFHH QMEVVHT*SGSSRS*RHNCTN GLMGSL*SVDRGREYDGLVH RRFFTC*HHPKLDSCSTTVPF* DIPEQL*REIFPPVSWRGWR LCMGSAWTFTTHQG*PGYGHG *VPNLPAAETNTEPSIWHSSG* SASYLVAG*LYGTSSIMERAEEV CPHWNRHLF*IWVVCLSTLCF C*DYHPWTLEMPYPSPYSTKL CCCPRHILLYG*RSAAV
8798	39166	A	8857	1	1056	MSSVLLRLIYQLTKQTASFEGG PEQKALQQIQAAVQAALPLGPY DPANPMVLEVSADRDVWLSL WQVPIGESQQRSLGFWSKVLPY SADNYFPFERQLLACYWALLET DRLTVGHQVTLQPELPMNWV LSDPSSHKVGHVHQHSIIKWK WYIRDQTRAGPEGTTTPVITQ/ WDAHEQSGLSGRDGKGRFV LTGVDYSGYWFAYPAHNAA KTSIVGFTECLIHCHGIPHSIAD QGTFLTAKEVWQWAHAHGIH WSYHIPPHPHPIAAGLIEWNGLL KSQQLQCQLGDNLTQGWGKDL QKAMYSLNQRLLIYSTVSPISRIH GSRNQREVEVEVAPLITLSDPL AKFFFLP
8799	39167	B	8858	603	1785	

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8800	39168	A	8859	3	467	RIHVRPEITLTA/ANTARPY*IDP HDTLLSHSNFGSSDCPSSSKMR QALELVRERAPELMIDGEMHG DAALVEAIRNDRMPDSSLKGS NILVMPNMEAAARISYNLLRVSS SEGVTGVPVLMGVAKPVHVL PIASVRRIVNMVALAVVEAQ TQPL
8801	39169	A	8860	1	1878	
8802	39170	A	8861	3	684	MPNYLRFVRGLIDSSDLPLNV REILQDSTVTRYLRLNALT KRVLQLLEKLAKDDAEKYQTFWQ QFGLVLKEGPAEDFANQEAIAKLL RFASHTDSSAQTVSLEDYVSR MKEGQEKIYYITADSYAAAKSS PHLELLRKKGIEVL LLSDRIDE WMMNYLTFDGGPPFQSVSKVD ESLENLADEVDESADAEKALT PFIDRVKALLGERVKDVR LTHA GSGLVGENV
8803	39171	A	8862	2	393	LEFGKKLGNAADYFIANKIDQ PKIAVINCEAFVVCVQRKRGFE EVLKSRVPGAQIVANQEGTVLD KAISVGEKLIISTPDNLAIMGES GGATLGAVKAVRNQNRPEKL LFSVRI*QPKLLRSWKTRC
8804	39172	A	8863	414	805	TPSRVEGNQEPYPSLVYIP/SQAP WNM*TRDHKHGLNLYVQRVFI MTDAEQFMPNYLRFVGGIDSS DLPLNVSREILQDSTVTRNLRLN ALTNRVLQMLEKLAKDDAEKY QTFWHQFGRGIIIFTSQFN
8805	39173	A	8864	3	684	MPNYLRFVRGLIDSSDLPLNV REILQDSTVTRYLRLNALT KRVLQLLEKLAKDDAEKYQTFWQ QFGLVLKEGPAEDFANQEAIAKLL RFASHTDSSAQTVSLEDYVSR MKEGQEKIYYITADSYAAAKSS PHLELLRKKGIEVL LLSDRIDE WMMNYLTFDGGPPFQSVSKVD ESLENLADEVDESADAEKALT PFIDRVKALLGERVKDVR LTHA GSGLVGENV

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8806	39174	A	8865	1	624	AKLLRFASHTDSSAQTVSLED YVSRMKEGQEKIYYITADSYAA AKSISPHLELLRKKGIEVLLLS RIDEWMMNYLTFDGGKPFQPG AKVDESLEKLADDEVDESAKEA EKALTPFIDRVKALLGERVKDV RLTHRLTDTPAIVSTDAD*M/TP RMAKCFGGAGQKVPEVKYIFE LNPDHVLVKRA\ADTEEEAKF CVWGKNCVLPF
8807	39175	A	8866	471	659	
8808	39176	A	8867	638	834	SSNTMMHFQIHMKESTEQQT MTARR*Q*SEVDE*REDTTLAA RGRTEA*SARYQLT*QSVPSPH
8809	39177	B	8868	1	1383	
8810	39178	A	8869	4452	4896	SQLSEVFVCHMLSQPRAPGAG RYL/LQRKA/SEALEVEV/VDTW QADAVRDTRTLVGESFLVSL ALALALSDLVSHKTRIDSLFLD EGFGTLDSETLDTALDALDALN ASGKTIGVISHVEAMKERIPVQI KVKKINGLGYSKLESTFAVK
8811	39179	A	8870	31	185	GHRRRPFKRGRKSR*RGGSQRR VNEDARRSAWMRKKQRRLISK ISDR\ARK
8812	39180	A	8871	1744	2670	

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8813	39181	A	8872	1	1680	MGFWVENGEIQYPVSEITIAVSS LVFSSASFAADLEDNMETLNDN LKVVEKADNAAQVKDALTKM RAAALDAQKATPPKLEKSPDS PEMKDFRHGFILVGGIDDALK LANEDVFRTRLGADALYQFQNI RHVLRMQRIAAGEGNTLAFDT SVIQIVNDLVFHCFGKWLGTGY PPCAFIATGAFMNTPGDKQGA TSAGAVDDVDRISNEITIGIPML TGYILLHVKGVRKSSADHRR RPLASLATPPHKSWTCTLLFFR LPNVVCYANRQQLTPILETLPO SDELPHEETVVLNWRQVHE QCLALHSQQQTLQQQDVLAAQ SLQKAQAQFDALQASVFDDQ QAFLAALMDEQTLTQLEQLKQ NLENQRRQAQTLVTQTAECLA QHQQHRPDDGLALTVEQIQ QELAQTHQKLENTTSQGEIRQ QLKQDADNRQQQTLMQQIAQ MTQQVEDWGYLNSLIGSGEGD KFRKFAQGLTLDNLVHLANQQ LTRLHGRYLLQRKASEALEVD VVDTWQADAVRD/TRLTSGGE/ SFLRLRL*VTRRHQLWLHLRLH
8814	39182	A	8873	3	823	
8815	39183	A	8874	287	426	YSGLSAVNPVNDAYGVRFQLP SVNRIPVS***VKLAPPAHQIKRI SGKCRFIPLC*YAPPGFSSASTM RATGILSTASQPPGKLCMEEST AERRVGLPLAKW
8816	39184	C	8875	1	2058	
8817	39185	A	8876	1	1989	
8818	39186	B	8877	1	3132	
8819	39187	A	8878	194	789	LTKLPSLFTFTRLSSDNDLRRGG DKRGGANGARIAL*PQTRTGD VTRRQPIRVCTVIEMFELLE/PIA DGRNRYARLVDST/TESLLIDK AQQLTLTAP/EMTALVGGMRV LGANFD/GSKNGVFTDRGVLS N/DFFVNLLDMRYEWKATD/ES KELFEGRDRETGEVK/FTASRA DLVFGSNSVLVFRILGGFFCEYS LTIRILH
8820	39188	A	8879	1120	1395	

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8821	39189	A	8880	1	629	THRPPKSGPPCAKTRTTHVTA KPLFPQTNPKQTVRRMQGELY LVDESGQEFVSALNYRRRKTR NNATAYPIRLFYLSVRPRAGSK SSRTIWILLAD/AKITPYERRQL VARIEA/LSTEIPAQVRPLYQLW RDGQALQLQLAEERQR/YTGG ADTKQDGATTTKDKQQR*TKG TRSQPSTREVQQSQTKHSTSR PPNHAQPSNSALVTRQ
8822	39190	A	8881	3	307	
8823	39191	C	8882	161	337	
8824	39192	C	8883	34	168	
8825	39193	C	8884	172	456	
8826	39194	A	8885	174	516	VSGVRCWIHSSAFPVPFGFFLP VAFFDRPPARLYRMHTWSHME SQEPARLPSHYAD*GQGSQKR\
						DSCSSGWAGLLFISQFVLWSA EIEGSLNHITLGFRLSHGTTSD GMTF
8827	39195	A	8886	1	2964	
8828	39196	A	8887	1	2724	
8829	39197	A	8888	3708	7098	
8830	39198	A	8889	115	339	
8831	39199	A	8890	445	634	VINTFSLHMTGSTS*HQGNWR HLTLHPRNSKHLEQPTPGVLQ LRPPTASLRQLLSNAGCSG
8832	39200	A	8891	1663	2234	GEGLRRGLFPGAEEAQGRAETA GCLRRGRGALALALPGSPGLSP WVEDAGGHRVLHGRAVLRCA RAPVPQPAGLAKVEPYSGVSS LTAFPQAPILLSGGQSRAGERT TM*G*PEMEKL*SCIGEGHQPC HR/KSRPAAPCPPPSAMLFLT SSATLLSSSKGASGGWEPSSAA PLGGSGQPFREMVSH
8833	39201	A	8892	202	542	
8834	39202	A	8893	564	1179	QHRLTYRTALWIHYRPDPKPL MSFRPGHQRLSVTSLVCHGLL MVGTSGLVGLVALPVPRLSSPSL PPVELL*HSVCVSVCRGISCL*W RLWDQISDWISRTLQPPRPSPC CPVVASPGPGKGPQCNGDPKW KSCEAAVSKGTSPATGKSRPAA PCPPPSAMLFLTFRYSATLLSS SKAASGAREPSAAPLGGSGQPF REMVSH
8835	39203	C	8894	321	539	

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8836	39204	A	8895	630	983	NLETNGKIPFENPWSKVPIRFGRL QNLRRVCLTTGGQIPTGRWVT ATDSRGAGDYRLCLHHLR*PD GARLSAGSADCAANRRDVGDS GRGLPGRLSVQQPRRVRGQP DVQPVSWPGC
8837	39205	A	8896	31	144	MEISFTRVALLAAALFFVGCDQ KPQPAKTHATEVTVLEKTMG TFWRASIPGIDAKRSaelKEKIQ TQLDADDQLLSTYKKDSALMR FNDSQSLSPWPVSEAMADIVTT SLRIGAKTDGAMDITVGPLVNL WGFGEQPPVQIPSQEQIDAMK AKTGLQHLTVINQSHQYQLQK DLPDLVVDLSTVGEGYAADHL ARLMEQEGISRYLVSVGGALNS RGMNGEGLPWRVAIQKPTDKE NAVQAVVDINGHIGISTSGSSRG D*DGYGQGLSRVIDPQTGRSIE HNLVSVTVIAPTALEADAWD GLMVLGPEKAKTCSPPGLRGT ESLNTLRDRITQINGIDEVRMD DSWFARLAALTGLVGRVSAMI GVLNVAAVFLVIGNSVRLSIFA RRDSINVQKLIGATDGFILRPFL YGGALLGFSGALLSLILSELVL RLSSAVAEVAQVFGTKFDINGL SFDECLLLLSSMVTFWCRNLF TSLEELWTNHADKQDDNSCLSS ASVYLKAKMMKVMLPMQLLS SGTGFYRDRLENSGGRYESRRS LTRQFREETAIPPRECSQRIDFL LFETPSVASASSAGFWLRFGSTA
8838	39206	A	8897	1	1775	
8839	39207	A	8898	10	300	PTSIPRESSSGTWQVASTTVLF SAILAGLGSASAFCLGPQIPQAR PNNASVNSKNSRFGIPRQAE*P EQGGVYHHTAGVLKKLIPPSAR QHPDRC
8840	39208	A	8899	1657	2061	QMPGNNPFSALLVAFKHQFAI AGGIFIKEVTFIAIKTSQLLWFGQ PIFNNETTHQTACFLSVEADDL KFAVLLIEEHLRLDNI.GIQFLRLH RFKILI*QINHHIALCCEERLVQ LVGDDISPEFELELRFSEVH
8841	39209	B	8900	26	1540	
8842	39210	A	8901	1	3396	
8843	39211	A	8902	1	3522	

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8844	39212	A	8903	1	105	SPQPDHRHYRHHRGQLVCIVIIIF YFCAKRWMAAIL* TQHRHRFL TTDDGKFVANGSFS* RGLHH/ ATGLRRFPIC* GPLVCIVIIIF FCAKRWMAAIL
8845	39213	B	8904	1	960	
8846	39214	B	8905	1	2618	
8847	39215	B	8906	1	490	
8848	39216	A	8907	2820	3332	ATEGYRQQRQFHAAAYDESP HRNRKRKWRPTYRCHPAPDHR TACLRSAFYGNAPGCVQTGPV RRSGAASASSPAVFLSGTSPWS FARTIALVRGRS/LKIDTNSPWA YFSALLM/F/DLLSHVHEWCGR YISPPRFAQTGETLPCRRHQGSR YSAYLSASRYPARRKWYFSPR
8849	39217	A	8908	3	716	EVDDTAKHRRRDSFPQ*DP/LM NIRYAPS/HLPATVALTGA VIIT VLYALAGKRLFCWSVCLNPIT DLANWLRRRFDLNQSATIPRII RYVLLVVLVGSALTGTLIWVW INPVSLMGRSLVMGFGSGALLI LALFLDLLVVEHGWCGHICPV GALYGVVLGSKGVITVAATDRQ KCNRCMDCFHVCPEPHVLRAP VLDEQSPVQVTSRDCMTCGR VDVCSSEDFPITRWSSGAKS
8850	39218	A	8909	3	323	
8851	39219	B	8910	94	2205	
8852	39220	A	8911	504	694	FNQLGRDWRITYYRKSDPPR/Q WLRHSPVR* VLKMPMAIRGL LWMLSAQPAICSSRQTKMV
8853	39221	B	8912	1	2031	
8854	39222	A	8913	3	190	FIATPGYTGEAGYEIALPNEKA ADFWRALVEAGVNPCLGLGARD TLRLDGDSEYG/QEM/DETVSP* AMKLRCPMKKRPSIGVRWWK RVLTHVAWARVTRCVWTGMN LMARDGETVSP
8855	39223	A	8914	1	621	MWPSVSHLTQMNIPSRFSEPSG AIEVPPDKVHELRLRLAQQGLP KGGAVGFELLDQEKFGISQFSE QVNYQRALEGELSRITETIGPV KGARVHLAMPKPSLFVREQKS PSASVTNLLPGRALDEGQISAI VHLVSSAVAGLPPGNVTLVDQ GGHLLTQTSNTEGRDLNDAQLK YASDVEGRIQRRIEAILSPVGN G/TAQLDFAS
8856	39224	A	8915	1	2274	
8857	39225	A	8916	957	1067	

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8858	39226	A	8917	1	1242	MDGLNTDKGSSVFHTPTDRLVI CCPVDADERMTTPPRLWDHEP SKPLFFTNYPVSAFFVGL/PPGK RPQGGFRAGNL*TSKTTIGRDL NDAQLKYASDVEIGRIHRRIEAF LSPIVSGSNIPAQVRAQLDFASK DQPEEQYRPNGDESHAAALRSR QLNESEQSGSGYPGGVPGALSN QPAPANNAPISTPPANQNNRQQ QASTPSNSGPRSTQRNETSNYE VDRTIRHTKMNVGDVQRKLGII GQGKNEKPLKQLERVEEKPNG EGWEKKWQGEVWKKEDGTI YLQKNKLRAPTDSTLWFAKNG RVAKIAKALVEPANNFNPGVD EDDTEKLLLEVPEELTNEKLDL EQKCIHIYDDKRRQTKQTPQDV FLKRVTSPPQEPQPGSGGIPEEG IVIIGEDSSVQVLAPEDLPVEKL
8859	39227	A	8918	256	1510	RRFVGFRGTGVTKEDAIQGRGV DQFFRQSQYRLVGVTVAGMPE LTRLFVQRFTQFRMRMAQRVH RNATREVDILFLLIPQARTFAT YRYKGCGRSVNRYHPFIKVFTRN WREADLSLKRVTLLNDTGYQ EVITYSFVDPKVQQMIHPGVEA LLLPSPISEMSAMRLSLWTGL LATVVYVQNRRQNRVIFESGL RFVPTDQAPLGIRQDLMLAGVI CGNRYEEHWNLAKEVTDFYDL KGDLESVLDLTGKLNEVEFRAE ANPALHPGQSAAIYLGKERIGF VGVVHPELERKLDLNGRTLVEF LEWNLADRVVPQAREISRFP NRRDIAVVVAENVPAADILSEC KKVGQVNVVGVNLFDMYRGK GVAEGYKSLAISLILQDTSRTL EEEEIAATVAKCVEALKERSQ
8860	39228	B	8919	47	156	
8861	39229	B	8920	139	993	
8862	39230	A	8921	1	284	MRRKRLIRPTVQAQVCRPDKTR KRRIRQWC/YGCRMRRKRLIRPI KYANRQAETA*GLDALHLCSS HG*KGPT*SSGHGFRGCKPQAL EASMWC
8863	39231	A	8922	1	813	
8864	39232	A	8923	1	1176	

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8865	39233	A	8924	3	618	AGGPPLNPIEMA*KS/WDEIIVK LEKDPQLKQTFLVYPQFSGE NITDAIAEFKLTITPDSPFDKW LRGDENALTAQQKKGYLQFKD NKCATCHGGIILGGRSFEPLGL KKDFNFGEITAADIGRMNVTKE ERDKLRQKVPGLRNVALTAPY FHRGDVPTLDGAVELMLRYQV GKELPQEDVDDIVAFHLNLGV YTPYMRDQ
8866	39234	A	8925	2	212	QYPGLDLHGAKGLGDLAGKR YRQLLVSCRVHLYRHPAGPGT RK*RRSGIRWLHRLCGNEPRGK LLVDQ
8867	39235	A	8926	1	640	
8868	39236	A	8927	1	704	MSSFQFEQIVIRSPYKEKFAVP RQPLVK SANGELHLIAPYNQA DAVRGLEAFSHLWLFVFHQT MEGGWRPTVRPPRLGGNARM GVFATRSTFRPNIGMSLVELK EVLCHKDSVILKGLSLDLVDGT PVVDIKPYLPFAESLPDASASYA QSAPAAEMAVSFTAEEVEKQLL TLEKRYPQLTLFIREVLAQDPRP AYRKGEETGKTYAVWLHDFN VRWR/VSP*ACSTFQLEP
8869	39237	A	8928	3	313	AQRGGI*RGSLATAGLRSFGLL HPRTSQQFCLPVRGKPPQTQAS VMVDAPHSTKLKHLRSISDCCT GSKNFKPVDLSLLGSMGVGST LDHLAPWLQAPFGE
8870	39238	A	8929	13	453	
8871	39239	A	8930	380	966	LRHAVLLTEGF/SYKPHAFALG FVEAPRGEDVHWSMLGDNQKL FRWRCRAATYANWVPLRYML RGNTVSDAPLIIGSLDPCYCTD RVTLVDVRKRQSKTVPYKEIER YGIDRNRSLNRSLYPREVPSTT LQPLRTPRCPGKNLALAVNVST GTNGQKPESCGPGRCRMKGGE YKRTISGGRTIIRVHIARLLRTF

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8872	39240	A	8931	1415	2085	SQVPICQRSTSCRVKRLFSWKMA AYRSALVTWPWRVFRNPAVPR TSPVVFTGGDVFSRVMVRVKE T/FDSLAMLEFALDNMPDTPLL TEGFSYKPHAFALGFVEAPRGE DVHWSMLGDNQKLFWRWCRA ATYANWPVLRVYMLRGNTVSD APLIIGSLDPCYSCTDRVTLMP QCIACGACACAPANALTIQTD DQQNSRTWQLYLGRCIYCPST NNNGPVISFN
8873	39241	A	8932	1	1127	MKKRKTVKRKYVTALVIVIA LMTLWRIRNAPVPTYQTLIVRP GDLQHSVLAPGKLARTSKNFA Q/FIRVRYSAFSLAGEKKR**P RVHGVQNASSGRYRGTCRLG SDSRKKLVEIL/LATPNMEQRT QGIGILDPQIARDLRFDPHYAEY DNIPK/TLFTFTAADVFSRVMVR VKETFDSLAMLEFALDNMPDT PLLTEGFSYKPHAFALGFVEAP RGEDVHWSMLGDNQKLFWRWR CRAATYANWPVLRVYMLRGNT VSDAPLIIGSLDPCYSCTDRVTL VDVRKRQSKTPYKEIERYGID RNRSPNRRCTGEGWTRAWITL PLLKPLTPLMIASFAFNFNFFV LIQLLTNGGPDRLGTTTPAGYT

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8874	39242	A	8933	1	2466	MLRGVNVLADAVKVTLGPKG RNVVLDKSFAGPTITKDGVSVA REIELEDKFENMG AQMVKEVA SKANDAAGDGTATVLAQAII TEGLKAVAAGMNPMDLKRAS RSRKGYGPARIQELNQKGISR EATEKAMRECDIDWCALARDQ ATRKYGELPTVFSEKSRKLI GVKRAFTHQAVNAGFCTQPAV SVIAGDFDRHGFNTRHFTRLF DDFSFETTRFCPAQIHTLKHARP VLCFRTARPLNIEVAVGAVIF AREHTAELKLRQFFQGAPOKA VISIPVVPQVTGVVIEVTDKKNT LIKKGVLFRLLDPTRYQARVDR LMADIVTAEHKQALGAELDE MAANTQQAkatRDkFAKEYQ RYARGSQAKVNPFSERDIDVAR QNYLAQEASVKSSAAEQKIQS QLDSLVLGEHSQIASLKAQLAE AKYNLEQTIVRAPSDGYVTQVL IRPGTYAASLPLRPVMVFIRSET SLRTHCPGHADYVKNMITGAA QMDGAILVVAATDGPMPQTRE HILLGRQVGVPYIIVFLNKCDM VDDEELLELVEMEVRLLSQY DFPGDDTPIVRGSALKALEGDA EWEAKILEL/RWLPGLFLYSGR ACD*QAVPAADRRR/SSPSVV VPLLPVV*NAVSSKLVKKLK/R WYPRDSEVLYWR*NVPPTAG RRPCW*ERRCSAAWYQT*RRNR

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8875	39243	A	8934	1475	2904	FWRAAAPIDCWRSAGVKKQH VEVTQLDWTTPGRQYAGPIPCS RRGYCPLPRSGSVRWADL/FPP A/LD/LAGHPG/AKVANLVPKTT FIDGVDQTSFFLGTNGQSNRKA EHYFLNGKLAAVRMDEFKYHV LIQQPYAYTQSGYQGGFTGT MQTAGSSVFNLTYDTPQESDSIG VRHIPMGVPLQTEMHAPGLPLA SSMKRWIRATGFIFGKEQFED VVPVLGSKVNGVQFNAELVAD SLGISQIRCRCAIFLTVVFFVLH KQAFDLISLLQPGRRNGGIDT AGHADDYFFCGFRHWITHDIEL QGGARQKDAADHYLAGDIESL PLATATFDLAWSNLAVQWCGN LSTALRELYRVVRPKGVVAFTT LVQGSLELHQAQWAVDERPH ANRFLPPEIEQSLNGVHYQHH IQPITLWFDDALSAMRSLKGIG ATHLHEGRDPRJLTRSQRLQ LAWPQQQGRYPLTYHLFLGVI
8876	39244	A	8935	1	920	MARADTVSVPFMGLAAKPC WRDTEPNTGYRGPHVRNIQLT HDPRLDYRSI/LIDINDIGQTFHE RLHPDACLSNAILVHNKGGP LADGIVITPSHNPPEDGGIKYNP PNGGPAADTNVTKVVEDRANAL LADGLKGVKRISLDESDGIRSK NDVIDTSDDDM**QCLSRRSN GHPGAKVANLVPKTTFIDGVD QTSFFLGTNGQSNRKAHEYFLN GKLAAVRMDEFKYHVLIQQPY AYTQSGYQGGFTGTVMQTAGS SVFNLYDTPQESDSIGVRHIPM GVPLQTEMHAYMEILKKYPPR
8877	39245	A	8936	471	668	
8878	39246	A	8937	1	1233	
8879	39247	C	8938	1	1548	
8880	39248	A	8939	1	1260	
8881	39249	A	8940	1	1468	
8882	39250	A	8941	261	596	RSESCCGHEPDGPETROP*PQR LWTCAYSPGTESERYFPRSDRK SDA*M*HRLVRTGARSGDAKI WRTFANCLFRKIKKTYRRSQGT FYAPGGERRFLYASRKRNR F

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8883	39251	A	8942	2	1356	CLPGLKLVRLLYRLEERNARRT SAAVDAT*AGAWLAQCGLTV EQLARIQVDPDMITTRAHLHYHC DHRGLPLALISEDGNTAWSAEY DEWGNQLNEENPHHVYQPYRL PGQHQDEESGLYYNRHRYYP LQGRYITQDPMGLKGGWNLYQ YPLNPLQQIDPMGLLQTWDDA RSGALTWYGWGDRLTTIQND RSKIQTIIYQPGSFTPLIRVETATG ELAKTORRLADALQSQSGGED GGSVVFPPVLVQMLDRLESEIL ADRKRAATTWSHNHYANKKE GIKATGYRLAQLGFKCEESSV FRVTRKSHSSFVWLDKAVTPHP TSNVRAGCLMRRWRVLSGLHR CEVLHPHTPHPAYHAGCGVSL QRNIRHFFLNGLRFRQLRFRRTIC CLRLVVVQPHFAGVLQLAFC CRYITVQLASIRNRDRFQRLPL RAGNTIAKYFFQIQHNRGG
8884	39252	B	8943	1	1159	
8885	39253	A	8944	1	1304	MAETQQQFKRMAASGLETRF DEVGNLYGRLNGTEYPQEVVL SGSHIDTVVNGGNDGQFGAL AAWLAIDWLKTQYGAPLRTVE VVAMAEEEGSRFPYVFWGSKN IFGLANPDDVRNICDAKGNS/IC RCDFGLRIYSSERPTNS/VVRIL KPLLCILNRA/DVLERITAWD KPDCHTLHHHADLSGHFPPEIG PLLFAFGSSAWQNGPSAFSWQK HGSAQTSSIAVLHRTPRHAGCL AQCDFTRAFFQIMLKNYLRKK RWKKKIHFPNASGKSS/RAIFEG YVTTYGDVAKLGGIAPGRAPG GR/VQRQALLAEGAGTAEDGFT *VGEVEDAARDGP*TAERTG* TYADAGRQDPQSAEDRQRANL HGNADR***RFASGGFHRGYHP RAAAGFCDHRKPACGNARRAG WPDRA*SKSSAYAFRYRYEHR HAGRSG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8886	39254	A	8945	1	1695	MRSDDPTSVNEIETKLSALLGS ETTGEILFDLLCANGPEWNRV TLEMKYGRIMLDTAKIIDQDV PTHILSKLFTLRNHPEGVVMK NFEVLQPLQNSLSGLPLWVSE ILQQINQLTHYEPVIGIMKGTGA GKSSLCNALFAGEVSPVSDVAA CTRDPLRFRLQIGEHFMTIVDLP GVGESGVVDTEYAALYREQLP RLDLILWLKADDRALATDEHF YRQVIGEAAYRHKMLFVISQSDK AEPTSGGNILSTEQKQNISRKIC LLHELFPVHPVCAVSVRLHPV VALLQQFRITDDERTHYHYDS QHRLVDYTRTQYEEPLVESRYL YDPLGRRVAKRVWRERDLTG WMSLSRKPPQVTWYWGWDGRL TTIQNDRSRIQIYQPGSFTPLIR VETATGELAKTORRSLADALQ QSGGEDGGSVFPPVLVQMLD RLESEILADRVSEESRWLASC GLTVEQMOMQMDP/TEGTTAW Y/AEYDEWGNLLNEENPHQLQ QLIRLPQQYDEESGLYYNRHR YYDPLQGRYITQDPIGLKGGW NFYQYPLNPISDIDPLGLSMWE
8887	39255	A	8946	605	1395	SMSLLKNIRLSSASKQCAACSG WPAAGIRGVSGGQG*ARVSSS ANTATALSSRLLPQNSVTVPH A*RMNCVLRVTPLSKNRGGKP APSGTEGKGLPEVQPGQLRAH GLPVSENLEQDFYASGPNQK WAGDITYLRTEGWLYLAVVI DLWSRAVIGWSMSPRMTAQLA AGCPKPLWGTPSPGPACGLAP SSAGVLPGRGVPVWVWLDSEDP EYVGSSDFLTQMOSMKKVDLK KNRAATDADGQFSRCCMPEK YAGSHN
8888	39256	A	8947	1	1914	
8889	39257	A	8948	1	4767	
8890	39258	B	8949	1	2294	

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8891	39259	A	8950	115	3551	NPALTRIVPAQONLYTNTLLAA RIKQRLTEQFELMLRQAQIDFA GKAHSLTEAQANTTQVSAERD RLFKNYQRYLKGSQA AVNPF ERDIDDARQNFLAQDALAQIS QLDSL VNGEQSQIVSLKAQLAE AKYNLEQTIVRAPSNQVVTQVI IRPGTYAASLPLRPVMVFPDQK RQIVAQFRQNSLLRLAPGDDAE VVFNALPGKVFSGLA AISPAV PGGAYQSTGTLQTLNTAPGSDG VIATIELDEHTDLS
8892	39260	A	8951	845	1213	DKGEIGGWAAQTHRSHEQGA RRVPEDRDARARRKNNEEPAAR PRTTNTNRNGSRKGPERK/WADG RGHKA EAGRRKRRKRQ*KEEM RKIRQESGGKKRGLCGRPPG GGNNCMEGERRGRKKR
8893	39261	A	8952	843	1061	NRPPPVCACHRQVVLPPVPNR APAEKWQVPRVTLPGRQSTSW FAAVVYRN*YQYCALTAQRGR RSRQLPHR
8894	39262	A	8953	1	682	MIRIFGCEDKLGADQQPAFVLY LEIDPHQVDVNVHPAKHEVRF HQSRLVHDFIYQGVLSVLQQL ETPLPLDDEPQAPRSIPENRVA AGRNHFAEPAAREPVAPRYTPA PASGSRPAAPWPNAQPGYQKQ QGEVYRQLLQTPAPMQKLKAP EPQEPALAAANSQSFGRLTIVH SDCALLERDGNISLLSLPTGIW CSD*H**PMIPRLIPASVRSSSM VESAK
8895	39263	A	8954	1	1887	
8896	39264	A	8955	189	552	LFRGEKGARNEVLATRYRQT VSGDFRHLHCLADQYALGGAY QF*AGLY*LHQAWEMNRGLQL LSDALGEQYAHGNWRLRNN DRFVFQILRSFEHDNSDKPGP GMPPHGWRTOFWGG

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8897	39265	A	8956	263	3549	TGGPSSPSSHWKTPVVIYWDGT ALRCVFVPLVGETGAQRKRISA RKGSILTTSCPGALSEHCPTTP APLPSQRRNHWMENISPFERSVG VSASRCSES*MRPWNSRMRPLG RSQGDSSAL/MSTGVAFGRGF LKGGLPQAPAVAAATPWLCTQ GVAGETTPAVNVKYNVVRVRS EYISMHVHREVTARNVYVTQT RRPMTTTPILAWETPHYHRRY GVSLSSAVVQVGPFRYCRQT NALSNLPNPNLKSADTQ
8898	39266	A	8957	1	1799	MMRDLINHAIRPACE*QLGA DQQPAFVLYLEIDPHQV/DVNV HPAKHEVRFHQSLRVHDFIYQG VLSVLQQQLETPPLDDEPQPA PRSHIPENRVAAGRNFHAEPAAAR EPVAPRYTPAPASGSRPAAPWP NAQPGYQKQQGEVYRQLLQTP APMQKLKAPQEPALANSQ SFGRVLTIVHSDCALLERDGNIS LLSLPVAERWLRQAQLTPGEAP VCAQPLLIPRLKVSAAEKSALE KAQSALAEGLMVNSTRFSLHE HPDAERSPGQSGEQRQPAVD DYAIVDEYGRHYRRAVAGTLL HVSVDSGTTQTVMYTWLSMA LIALPAFIFARVPNDTHQNVAIS RRKTESRNEVLATRYHRQTVS GDFRHLHCLADQYALGAPIPPD GTRRPILVNGAEVGAVIASPVE RLTRNTDINFDKQQRQTSWLIV ALATLLAALATFLLARGLLAPV KRLVDGTHKLAAGDFTTRVTP TSEDELGKLAQDFNQRASTLEK NQTPITSRGHPRIFLARHPAPAP TTLTSLALKIIRSPAFLPDTASEC AMAIIDCYILAASTQAYKAASSL SLSVVLATSARFKTSSTSIWVKS SSTNSCE
8899	39267	A	8958	1348	2190	
8900	39268	B	8959	1	105	
8901	39269	A	8960	1	781	
8902	39270	B	8961	1	1716	
8903	39271	A	8962	754	807	
8904	39272	A	8963	821	875	FFSLFFFISLASGLSIL*W*FVFL WDRW*YPLYHFLHLHFDSSLSFS SLLVLLVVYQFC

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8905	39273	A	8964	1	315	SGSVMPPALFFWLRLDLAMQALFWFHMNFVVFSNSVKKVIGSLMGTALNL*ITLGSMAlTILILPYP*AWNVLPFVCLFYFLEQW FVVLLEEVLIHPCCKLDS
8906	39274	A	8965	42	403	GLCSVPLVVISVLVAVPKLFW*L*PCSI*SQVA/SIPPALFFWLRLDLAMWALFWFHANFKEVFSNSVEKVIGSLMGALNL*MTLGNMAVFTILILPTHEHGMFFHLFVS SFISLSSGL
8907	39275	B	8966	179	1225	
8908	39276	A	8967	342	407	
8909	39277	B	8968	143	3122	
8910	39278	A	8969	692	1360	MCGIIEGSLFHCISITLFWYQS HAVLVTVAL*YFLKSGGLMPPALFFWLRLDGLMLALLWFHMNLKVVFSNSLNKVIIGSLMVMLNL*ITLGSMAlTILILPIHEHGMFFHSFVSSSFISLSSGL*FSLKRTFTSLVSWIPGYIFFVAIVNGSSLMIWLSVCLLLVYKNACDFCTILYPETLLKLLICIRRFWAETMGFSRDTIMSSANRDNLTSFFPN
8911	39279	A	8970	2116	2418	FFSLFFFISLASGLSIL*W*FVFLWDQW*YPLYHFLHLFDSSLFS SLLVLLVVY/PILLIFS KIKNKKPAPGFIDFFEGFFVSLSPVLL*S*LFLAFC*LLNVFALASLVLLIVMLGQCF*IFPAFSCGHLVL*ISLYT
8912	39280	A	8971	1	558	LYKNSVKYFHN*PVGNIMSNIPV GALFSGPAFGIGILAAGVILAI MIIPYIAAVMRDVFEGTPVMM KESAYGIGCTTWEVIRIVLPFTKNGVIGGIMLGLGRALGETMAVTFIIGNTYQLDSASLYMPGNSITSALANEFAEAESGLHVAALMELGLILFVITFIVLAASKFMIMRLAKNEGAR
8913	39281	A	8972	1879	3735	
8914	39282	A	8973	16	452	VGQLFWKGYPLAGFPDPCAQS WKVAHVLLRLGLHIKSVSANGKEVTSKFHRKENI.ARG.LHSRPRRGQVRVGGVAQHCEPR*TPPPACRVR.LPGCPVDPASPRGRRTSAGTPEPALRHPTPRGPVAARTLPAEPGARPSGLPP

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8915	39283	A	8974	158	531	CSLRRRGPPDP/PGAYCKRRATG AASTRSLSGAVAGSPAHRCESR PLQAMGAGGLPHPEGGRRGGSG GRKRTDGPVCGCGERAPREYP DPSRSWRGPQRKPAPSQHPCLP RLSRGPGRHPEGPHIQVR
8916	39284	B	8975	22	387	
8917	39285	A	8976	241	389	VASQAPGVRALQVGPAAHSC*G RGHVSWPPWPWGPPCCCLCL LNLGPN
8918	39286	A	8977	1620	1936	TLFFFESESHSVTQDRVQWYDL VNSLQPPPPGLK*FSCLSLPSWD YRRPPPCPANFFFLVELEFHVV GQDGLLELTSGDPPALASQSR ITGMSHCAQQNKHIL
8919	39287	A	8978	3	105	
8920	39288	A	8979	1	1821	MLKNFKKGFNGDYGVTMTPTG KLRLTCEIDWPTLEVGWPSEGS LDRSLVSKVWHKVTGKSGHSD QFPYIDTWLPQWVRGQAAAVL VAKGQIVKEGSRSTHRGKSTPE VLFDPTSDDDLQEMAKVIPVVP SPYQGERLPTFESTVLVPPQDK HIPRPPRVDKRGGEASGETPPL AARLRPKTGIMPLREQRYTGI DEDGHMAERRVFCQPFSTAD LLNWKNNTPSCTEKQALIDL QTIQTHNPTWADCHQLMLFL NTDERRRVLQAATKWLGEHAP ADYQNPQEQYEGKEESPAQFYER LCEAYHMYTPFDPSPENQRM NMAVLSQSAEDIRRLKQKQAG FAGMNTSQQLEIANQVFVNRD AVSHTGAHVSVTGPVAPLSK KTIDIIGAMGVSAKQAFCLPRT CTPGTKDYRLVQDLRLVNQAT VTLHPTVPNPYILLGLLPAEDS WFTCLDLKDAFFSIRLAPERQK LFAFWEDPESGVTTQYTTWTW LPQGFKNSTPIFEALARDLQK FPTRDLGCVLLQYVDDLLLGHP TAVGCAKRTDALLRHLEDCGY KVSKKKVAQICQQQVRYLGFTI RRGVRLGSEKQVICNLPEPKT
8921	39289	B	8980	209	2272	
8922	39290	B	8981	1	228	
8923	39291	C	8982	375	472	
8924	39292	C	8983	266	408	
8925	39293	A	8984	1	1105	

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8926	39294	A	8985	108	708	LTNQKKSRTTRRIHSRILPEVQGG AAADRHCPIDRLGSLQDHHRRS RLLSQWSP*KSTHD*HGFSYQS AEDIRRLKQQQAEEFAGMNTSEL LQIANQAFVNRDAVSRKNIHR DNERQAQRNTDLLAAAIRGVPP KRQKGKGGPKETQPGCQSLQR NQCA YCKEIGHWKNKCPQLKR KPGDSEQEAPDKDEGALLNLA EGLLD
8927	39295	A	8986	125	444	DCLAVKRASVWQPTGYSCPKL L/QGVLT YQRRQAAPPLRRR LASSRDKPKCAGKHTSSLVRA GDMQGTIVTGTTEVLRLDMEPK FEDDQLRPVLLHKKVPRREMA
8928	39296	C	8987	80	325	
8929	39297	A	8988	566	1857	
8930	39298	A	8989	1	1037	MEEGWIRLPDGRVAAPQLLGA AVVLAVQETHRGQESLEKLL GRYFYISPLSALAKTVRQRDFA DFGTTIKQDFRLLGQTSVDRL QLSQGQAVKGNQLLPVSLTSQ CQVYKCVWNWVWVGLGLTDFKN EAKELRLYKQEKREKAKRWKE TEKGFNGDYGVMTTPGKWRT YFEIDWSKLEVGWPSSEGNLERS LVSKVWHKVTGKSGHSDQFPY IATWLQLVLDPPQWLRLGQAAA VLVAKGQIPRKDPTPPAEGNQ LLK/SLFDP TSEDPLQEME/PSDP SGALPLPGKDAPH S*AHSPCAS TRQTYP*ATRSRQERR*SLERNP YIGSFKTQNWDTNAPERAVV
8931	39299	B	8990	1	2082	
8932	39300	A	8991	6	367	ENLNIKAPHAVVTMLTTTGPD WISNAILTKDFCLLCENTHISRW GCNTLNATTL LVSSEPVKHNC LEVLD SVYSSRP NLRDHP*TSV DWEL YVDGSGFANPCKVTLKK ETSPAPVTPRS

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8933	39301	A	8992	1	2991	MLKNFKGFGNGDYGVTMTPTG KLRITLCEIDWPTLEVGWPSEGS LDRSLVSKVWHKVTGKSGHSD QFPYIDTWLPQWVRGQAAAVL VAKGQIVKEGSRSTHRGKSTPE VLFDPSTDDPLQEMAKVIPVVP SPYQGERLPTEFSTVLVPPQDK HIPRPPRVDKRGGEASGETPPL AARLRPKTGQMSLRQRYTGI DEDGHMAERRVFCQPFTSAD LLNWKNNPTSCTEKQALIDL QTIQTHNPTWADCHQLL
8934	39302	A	8993	1	444	SSASTPETRAKFT*DNLCASW QRLASANFRVLVDCILSDTFED LRLQCDAVNLAFGRRCEELED ARYKLHHHLHKA VE*GGGA EH VPHRLREKLLEAEQSLRNLEDI HMSLEKDIAAMTNSLFIDRQKC MAHRTRYPTILQLAGYQ
8935	39303	A	8994	1	1576	MVQTDVLLPEPAQPTVSPCELP CKEYDVARNMGPGRHRLQLEWV FQNCYARYHQAFADCNQSERE LQGREGQLAAETQALAQPTQ QDSTCRVGERLQDTHSWKSEL QHEVEVLA AETDLLAQKRL ERALDAMEVPFSIATDNMQCS QRHQHANLV RDYV VETELLKAY PPAPSQCLKNCCSSRKPSACNK GACEVMETLTVQEEANPGTEG CRTRALAHKEEA EPIRNIQELLK RAIVQAVSQIQLNREHTEICEM DWLDKVEAYNLDETCGRHHSQ STERP/WTKFTQDNL CRAQRKR LSSANLWVLVDCLRDTS EDL GLQCDAVNLA FGRRCEELEDA RHKLQHHLHKMLREITDQEHN VVALKEA IKDKKEPLHIAQTRL YLP SHRPNMQLCREAAQFRAA FPG*ESQWRLPRTSLPAPNWE FWVPFHPSRCILLSPAPAH TTP TPPSW*VRWRSLYKSITALREK LLQAEQSLRNLDI HMSLEKDV TAMTNSVFIDRQCKMAHRTCY PTILQLAGYQ
8936	39304	C	8995	99	442	

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8937	39305	A	8996	177	622	TESSASEKTTGEDGTRVVFVSL RSLLSLLPSAPLRHHPPSA*L SCLSCVSD*AVALIPQSAHHFPNIS *PFPLHCF/AHAKPPVWIFHSH/S LWLP*AFLAPMTSFTDQVAVD DFLSIVYLFITFTPLAFCEPST ALATREQVWVESAS
8938	39306	A	8997	1	329	AAARPGRGSETGDWVLLCYPG WSAVV*S*LT/SELLGSRG*G SLLSLPSSWDYRLSAPCLANSK KPSEK*GLSMLP*LVNSWPQVI LLGPPKALGLQAPGTMGRLP
8939	39307	A	8998	1	814	
8940	39308	A	8999	57	274	TASSSLTLVYGHRLCWLGSPH *PSLWLP
8941	39309	A	9000	1	1236	
8942	39310	A	9001	1	1095	
8943	39311	A	9002	1	2313	
8944	39312	A	9003	166	494	FSQQLCGENHPLHRTENTQAQR AGVPLGVRLSRPGFP*LSTHSC FSCPLV*PPSQGPGLSLWTLC SAIQAPAELESCRSSCDRDGRSH WPRVSGGLWLSQVPRPR
8945	39313	A	9004	3	974	MGESPAV*GYFVLAGMNSAGL SFGGGAGKYLAEMWVHGYPSE NVWELDLKRFALQSSRTFLR HRVMEVMPLMYDLKVPWF KTVSQLRTSLLYDRDLAQEAR WMEKHGFERPKYFVPPDKDLA ALEQSKTFYKPDWFDVIESEV KCKVEAVCVIDMSSATKFEITS TGDQALEVLQYLFSLNDLDV GHIVHTGMLNEGGGYENDCSI ARLNKRSFFMISPTDQQVHCW AWLKKHMPKDSNLLLEDVTW KYTGTVRALYGDVEHESWLS CVRHAHHPDPCIAHTYLHLRS FSQADGREWRKVLDKHKILFL ARSLC
8946	39314	A	9005	1	1872	
8947	39315	A	9006	1	2250	
8948	39316	A	9007	1	1257	
8949	39317	A	9008	1	1596	
8950	39318	A	9009	1	1584	
8951	39319	A	9010	1	1461	

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8952	39320	A	9011	110	993	TSTELSTPSQQNIHSSQHHIALV PKLTT*LERIKYLGQLTRDVKD LFKQNYKPLL/NKIKEDTNKWK NIPCSWTGRINIVKMAILPKVIY RSSAIPKLPMTVTFTELEKSTLK FIWNQKRAHIAKTLSQKNKTG GIMLLDFKLYYKATVTKTAWY WYQNRDIDQWNRTEPSEIIPHC NHLIFDKPDKNRKWKGDLSFN KWCRENWLAICRKLKLDPLTP YTKINSRWIKDLNVRSKTIKTIE ENLGNTIQDIVMGKDFMAKTP KTMATEAKIDKWDLIKLRASA QQKKLPSE
8953	39321	A	9012	1	1185	
8954	39322	A	9013	1	185	
8955	39323	A	9014	2	1321	
8956	39324	A	9015	2	1757	
8957	39325	A	9016	1	1008	
8958	39326	A	9017	1	1311	
8959	39327	A	9018	1	1152	
8960	39328	A	9019	1	526	MPSLTTPQHVSQGSSGRAIRQEK EIKGQLGREEVKLSLFADDMIV YLENPIISAQNLKLIISNFSKVS YKINVQKSQAFLYTNNRQTESQ IMSELPFTIA/KRIKYLGIQLTRD VKDLFKENYKPLL/NKIKEDTNK WKNIPCSWVGRINIVKMATLPK MTWIANWLRNSLQAQ
8961	39329	B	9020	1	1626	
8962	39330	A	9021	1	2361	
8963	39331	A	9022	1	1140	
8964	39332	A	9023	1	2112	
8965	39333	B	9024	1	1065	
8966	39334	A	9025	1	1416	

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8967	39335	A	9026	1	1690	MPMVEELYGNYGIMADTTERV GQHKDAYQVILDGVKGGTKEK RLAAQAYFILKFFKHFTELADSAIN AHLQTVSGRQQVLKLVAEQAD LEQTFNPSDPECVGRLLQCTQQ AVPFFSKTVHSTRSVTYFCEQV LPNLGILTTAVEGLDIQLEVLKL LVEMSSFCGDMKLETNLGLK FDKLLLEYMPLPPEAENGNA GDEEPLQFSYVECLLYSFHQ GQKLPDFLTAKLNAEKLKDFKI RLQYFARGLQVYIRQLHLALQ VKQCFAYMEKENGIDAKILN KILANRIQQHIKLIHHDQVGF PGMQGWFNIRKSNVQHINRA KDKNHMIIISIDAEKAFDKIQPF MLKTLNKLIGDGYFKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEVLAIRAIQ EKEIKGIQLGKEEVKLSLFA DD MIVYLENPIVSAQNLLKLSNFS KVSQYKINVQKSAFLYTNNR QTESQIMGKLPFTIA/S/KRIKYL GIQLTRDVKDLFKENYKPLKE IKEDTNKWKNIPCSWVGIRNIV KMAILPKNWKKLL
8968	39336	A	9027	1	1575	
8969	39337	A	9028	1	2682	
8970	39338	B	9029	1	2088	
8971	39339	A	9030	1	2406	
8972	39340	A	9031	1049	1500	
8973	39341	A	9032	1	4341	
8974	39342	A	9033	103	366	NHPQLKVAGLKNCCVCMCV CVC/CVCCVRVWVWVCVCVCVC VCVCVC/CVCCVC/CVICVCICI*V WVCVCVCCLCLSLPKCWDYRHE PQRPA
8975	39343	A	9034	232	735	YLSGNGGEGKFCHALPDHRLR VLHQHPHACVETDTVDLGITS ISLADRVVCVCMCVCCVCVCVC RVWVWVCVCVCVCVCVCVC/C VCVC/CVICVCICI*VWVCVCVC/ CVCVCVCICVCVCVCVCVCVC/ CICVCICI*VCVCVYVCVCVCCLCT VLGIHSFLTARNAHQPIGH
8976	39344	A	9035	163	795	

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8977	39345	A	9036	34	758	RVPHRHGMKRVVRQRHGMKRV PHRHEMKRVPHRHGMKRVPHR HGRKRVPHRHGRKRVPHRHGR KRVP AQVQDEEGHCQKPGRCV CMCVCVCVCVCVRVWIVCVC VCVCVCVCVCVCVCVCVCIC VCI*VWVCVCVCVCVCVCIC\ CVCVCVCVCVCVCICVCIC*VCVC VYVCVCVCLCLFYLVLCFCIS/ CIISGGQRWC*RKTMCSLPFAH SHHSFPGHFFLIFQSRSFQVSFHP
8978	39346	B	9037	34	156	
8979	39347	A	9038	3	419	GGENVKAINQQTGAFFVEISRQL/ PPN/GDPNFKLFIIRG/SPE/QIDH AKQLIEEKIEVGWGG/LWGFL TARIPAHLPWLLSFLGLPLCTV GPGPGGPGPAGPMGPFNPGPF NQGPPGAPQ*VSSASWVLRP/E GLLSWQEE*QTPFFFP*KCRAG ALIAHFCEGYHQALSCL/PGR ACAFQHPSVHVQVSRLLSCPQA DAARPPSSCFLSRFPFGAPLSLVV WVSGASPLKNIPTPGGPAA/PPP HHCSSIPFFSPA VPGGPLLTSTH PRAGAIPTPSGS/QPAPHDP SK* WALQPGATRGSP TVSILCLLGF EAGLLSWQEE
8980	39348	A	9039	1	445	ATADPNAAWADDYSHYYQQP PG/PVPCAPAPAAPPAQGEPPQ PPPTGQSDYTEWAWEEYYKKI GQQPQQPGAPPOQDYTKAWE\ EYYKKQAQVA/TGGG/PGAPPG SQPDYSIAAWAEYYRQQAAYY GQTPGPGGPPPTQ/GQQQA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
8981	39349	A	9040	38	1297	TCVSALSVLASDDGTGPEKIAHI MGPPDRCEHAARIINDLLQSLR VGGPGC*RGWQGLQGSARFDR LPGFIHLLLLSCRVVPPQGPVGG PGMPPGRRPKKEGGN/WGSP WAGKMTFSIPTHKCGLVIGRGG ENVKAINQQRGAFFVEICRQLPP N\GTANFKLFI\RGSP\QQIDHA KQLNEKMKGPLCPVGGPGPGG PGPAGPMGPFNPGVPPNQGPPG APPHAK\PPPHQYPPQGCNGT YPQWQQHAPHDPISAGKAAA AAADPNAAW/AAYYSHYYQP PGFPV/GPAPAPAAPPAQQQQP Q/QPGAPPQQDYTKAWEEY/YK KQAQV/ATG/GGPGAPPGSQPD YS/AAWAEYYRQAAAYYGQ/T PGPGGPQPPPTQQQQQQWVA PETPSPRGVPLMPAAGAVWPE VPGVPTHRQGSIRWVQR
8982	39350	A	9041	1	1777	MPVLPVTATEIRQYLRGHGIPF QDGHSCLRALSPFAESSQLKGG TGVTTSFSLFIDKTTGHFLCMTS LAEGSWEDFQASVEGRGDGAR EGFLLSKAFEFEDSEEVRIWN RAIPLWELPDQEEVQLADTMFG LTKVTDCTLKRFVRYLRPARS LVFPWFSPGSGRLGLKLEAK CQGDGVSYEETTPRPSAYHNL FGLPLISRDAEVVLTSRELDL ALNQSTGLPTLTLPRTTCLPPA LLPYLEQFRRIVFWLGDRLRSW EAAKLFARKLNPKRCFLVRPGD QQPRPLEALNGGFNLSRLRTA LPAWHKSIVSRQLREEVLGEL SNVEQAAGLRWSRFPDLNRILK GHRKGELTVFTGPTGSGKTTFIS EYALDLCQGVNLTWGSFEISN VRLARVMLTQFAEGRLEDQLD KYDHWADRFDLPLYFMTFHG QQNIRTVIGTM\NHAVYVYDIC HVIIDNLQFMGMGHEQLSTDRIA AQDYIIGVFRKFATDNNCHVTI VIHPRKEDDDKELQTASIFGSA KGGWSAPHSTSSRPSAQPKSD STVAEAAPLASDFATYWIWFLT WGRGRASRDREFGYLAALN

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8983	39351	A	9042	3	679	SPLIVSSARMHAGRDI.PLYFMT FHGQQSIRTVIDTMQHAIVYGAY DICHVIDNLQFMFMGEQLSTD RIAAQDYIIGVFRKFATDNNCH VTLVIHPRKEDDDKELQASIF GLSQRQAREADNVLDPA GTGK LGNRGQGKRYFAGVPKEPF*W EM*GVFPLEFNKNSLTFSPPKN KARLKKIKDDTGPVAKKPSSGK KGATTQNSEICSGQAPTPDQPD TSKRSK
8984	39352	A	9043	90	317	GTLRKRYRAFHCRITIFKALTEV CKNFSAHCEFSWGFFFCFSFF LASS*G*NCLPSQPQPCWFLQPP CPWQIL
8985	39353	A	9044	2	2136	PRLSVSLSEFITTHIYFLLSETTY NYEWNLSISLYVVDPSRLAC*TV QLFFMLQLSVGLYVFNVDNDIC LHKMGSVTVLFFVTARRVNLPP VAVIKLMSSSSISFLSLFLNLV ESTDDTEIVSYHWEEINGPFIEE KTYLCFFTLFCVFIFVFAIT*G VQTPYLHLSAMQEGDYTFQLT GLQT*CKEILFHTVSVIPENNRP PVAVAGPDKELIFPVESATCLS YSKPHAPSLMLTTSMFYRGPSA VEMENIDKAIATVTGLQVGTY HFRFYSITGVNLQSLCFHFAIFD LENNSPPRARAGGRHVLVLPN NSITLDGSRSKPRNWDPRIDSC PVIRVLSQDVIDGSDHSVALQL TNLVEGVYTFHFLML*SLCKCP SANPVSSLSPPDKSGVELTLQ VGVGQLTEQRKDTLVRQLAVG VSW*SPSDHVAVLSHCLLHSTV IVFYVQSRPPFKVLKAAEAVARN LHIS*SRDSLFCMLPSALHTS/S AGCLLKCSGHGHCDPLTKRCI* K*SWSTNSL*LCPLWFSCVSEW SIFYVTVLKS*LSVTLFKI*VELF IVPFRQKRKIRKKTLLNMY*VH LK YFTH*ILILPIAVRGMCDNDYP HD*QLEVNHGVPQMLLCFSLG IKHRSTEHNSSLMVSESVRSFD RDCLQSLNYLLSGLLQKEKNLQ KAGLTSPAPSLWEDKCSGRTEH AQ SARLPLKEDTEKTLMQF
8986	39354	A	9045	47	157	FDKICIFKRQVTKSEVILNLTN* VL*YLEYHIRNIN
8987	39355	A	9046	1	393	
8988	39356	C	9047	274	357	

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8989	39357	A	9048	727	1089	
8990	39358	A	9049	175	608	CGWEYGN* AIDTMDQEYCKVC QAYKAPRSHHCTKCNCTCYMK MDHHCPWINNCCGYQNHASFT LILLAPLGCIIAAFIQVMTMYT QLYSFGMENNFFRKQNFYLLSS WDWKEEGLKDPDFSIQLGWK SFVFFHMDMGEVDGEGTF
8991	39359	B	9050	780	1166	
8992	39360	A	9051	3	681	HIRGPRYSGHHSFAGCPYSDMN LKKEATLHDLRLEQTQANLES DSSHKSLSLCSLNFNGKHEKV NSQPRLVQQAQCKIKGKEDID LDNLFREYSVEQAQVVLHQS SMSTVSAHPFRDLPLGREQHCK LLPGVADIRASQVARWTVDEV AEFVQSLGCEEHAKCFKKEQI DGKAFLLLTQTDIVKVMKILG PALKIYNSILMFRHSQELPEEDI ASGQEVRG
8993	39361	A	9052	30	981	TQDPWPSPVLVWSRASSDPAAG HRAEHI*TYWPWKLEGTDIWL VLYMPLVQPDNFIKKHSLPTY CLFKEDYKFPFRTCLTYCWLN YTEEITYLHTKKVSVGQSAVRE EFAAACTWSIRIGEKLAILLSLY LCRQQALLNMRMSVPIHESGV AQRSPVMDKLAQYSVEQAQV LHQSVMSTVSAHPFRDLPLGR EQHCKLLPGVADIRARQVARW TVDENLHGLIQTQTPHLDISIS KGESPALVVTLMCMMTATEP LVPTKNPYQERGHIGDSFLHYT DQEPQPDQSSVHPTAPIYSV SSGFRVTRGSDI
8994	39362	A	9053	1	864	MVSALPEVGRAQLRLIAYIRSP APPVVGVERAARRPAQAFGLV ALPSTDATVFANQPLARACIGA ARHREPDAPGQSAWVGEECLK DALRSPETPKLGLSLPPCQDTRP GRASNDFSLEMGYSLSAARLK IHGQVFQCCGPGPLRTLHWQ S*TYLNLIALET*GAQNQP*EW QAVD*GAPGLFSLTLGVFPR/RL PQHPKQIICFQNYEYSVEQAQV VLHQSVMSTVSAHPFRDLPLG REQHCKLLPGVADIRASQVAR WTVDEPYSSAPRGPELSAGANS SRGA

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8995	39363	A	9054	1	1737	MKEKPAVEVRLDKWLWAARF YKTRALAREMIEGGKVHYNGQ RSKPSKIVELNATLTLRQGND RTVIVKAI TEQRRPASEAALLYE ETAESVEKREKMALAQMIMPQ IIDQLHRYLFENFAVRGELVTV SETLQQILENHDPQPVKNVLA ELLVATSLLTATLKFDDITVQ LQGDGPMNLAVINEINERAQNP LLCAFRVCNTYGSYECKCPVG YVLREDRRMCKAVFPYCQNES SDVLWQFDSTSQIFLKGTPKTT VRRGGEHNLKNPDECEDNPNIC DGGQCAGIPGRNRLCYDGF ASEDMKTCVDIDECSLPNICVF GTCHNLPLGLFRCEIGYELDR SGGNCTEDPDHKSRSRGSQND WGRRRKT/S*KRSAVYR*RQLY IRRQPYAERPSLR*RQRP*IPCIR SQHGNRKRMRRRRJI/STKR AAARTSSVKARSFSRALKNA MLS*RTAPSVS*S*IMITH*KK** SR*SLQTR*LMKSSARVFSK*TA NGTWSL/HSRGSKVTIDGINSND IYMLGYVSNLSLTGPYPVDKGTG LGLEMGLDPNDVTLTYSHFRVP EAEAMWVSHAT

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8996	39364	A	9055	1	1743	MTTSTMTHMMTMHFPIIIVCAD SRDDVDVNTDNDVNDHDDSAKR KSHRERPIAAKRTETK/KRRRRA RPKR/RTKARS*SAK*QTAQHT RTTAAIIMRDTQARRV*RP TKH AAEQRQNTTGKQRR*TKRVKA AKKEGE*RRRKMARRTTPTQR R*TRAKRRINRPRHGAKKRA*N /RRLKSAPKRHRVNRNRENART TTRHKKRRNRVKAERSGAE RTPYKQRHQQTREKRTCKRRQ TK/RRTKAK*TRDHENDGTRA YNKTPKKAARKTRNNLRHNA TKGGDNRGQTRRA*TKPRKYR PDENRYNTSSPERTPRKRRGKS E/RDKTAQRAQ*ADRYNSRKT QQRL*KGHTHTER*QARMHT RHAQNLDTOHSTRLCNA*ST/C HDRRSSSTMCHRYDQLYSRSH ALTMIIIVNKPLRQCIRMLSFHD RHRSLAIDGDSASTGSPAFRCV NTYGSYECKCPVGYVLRDERR MCKDCTCEKAFAPAGCEVDKT HTVPQERAYIHRTRLGRARTKK RDLYRRAHNDRRRQKSAAYYE STSVRRRAHKYNSGKSDTQNGS HHRQKLRQYGDAGKSHYLQY NIHFMYPLFNT
8997	39365	A	9056	3	451	FFEMKSHSVAQAGVQCSGVILA HCNLHLESDDSPASAFRVAGII DARPHAWLIFVFLVETGFHHVG QAGLELLS*VIHPPWPPKVLRL QHETPCPAVSLYLNQSPENNLE EDSLAMSNNRRSGPGIWWQNP GFEILALSTFLVESDLK
8998	39366	A	9057	53	343	
8999	39367	A	9058	14	234	CLFIRIFNVICYSKTCKNSICIGV IEIVIDGCMCGGEDGGGGGGSV TAGGAPSPJETGSHGPPQAVYF WRF

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9000	39368	A	9059	3	865	INFSVCVLARFFLGVVVLCVSC CWFRCCVACVICALAFPCSCC VVVLCVPVGRCTLFAV/CCCL/ CVICALFCGFLRLFLCLCV/CPC S/CSARCRC/VCLALGAVVCFPP CSVVASCGCCDWWVWLCGAV VALVGLI.CCVLVCAWSFRGC/C V/CLC/VCVVVVLVVRCC/VCW CGSCVVDCAAGVVLVCCLLVVL MMSL/CGCRVYSWYGVWCVCS VVCRVIDL/CPCLCLW/CVT*RG CWSVWCM/CTCCG/CVCGLA V/MCWCRVVRVLVCLCAV*FIC ACVCFEAVGGFVGGCFLGSCL
9001	39369	A	9060	1606	1849	QGVASLCREAGLTKISPGAPL WLPCSPGVTAECSGERTVRHN VTDRCVGLGAVTSPGRN*RG HVTHKFCILCTDTRDC
9002	39370	A	9061	2	682	ALEAVFGKYGQIVVHLMKDC ETNKSRGAFITFERPADAKDA ARDMNGKSLDGKAIKVEQATK PSFESGRRGPPPPRSGPPRVL RGGRGSGGTREPPSRGGHMD D/SGRDSYRGPPRESLPSCR/D APPTRG/PPPSYGGSSRYDDYSS SRDGYGGSRDYSSSRSDLYSS GRDQVGRQERGLPPSMERGY PPRDSYSSSRGTTPRGGRGGS RSDRGGGRSY
9003	39371	A	9062	90	443	NVYYIQFIVLPYYLTIDPAGNSR SAPPTRGPPPSYGGSSRYDDYSS SRDGYG*SRDSYSSSRSDLYSS DRIVSTLFFVSLNWDGPKFCLF LVASASPSIRSASSRSTSWCS AA
9004	39372	B	9063	12	1373	
9005	39373	A	9064	2	206	

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9006	39374	A	9065	2	1423	IHFREMAKSWLNFLTFLCGSAI GFLLCSQLFSILLGEKVDTPQNV LHNDPHARHSDDNGQNHLEGQ MNFNADSSQHKDENTDIAEKIL EEKVRILCWVMTGPQVLEKKA KHVKATWAQRCNKVLFMSSEE NKDFPAVGLKTKEGRDQLYWK TIKAFQYVHEHYL*DADWFLK ADDDTYVILDNLRLWLLSKYDP EEPIYFGRRFKPYVKQGYMSGG AGYVLSKEALKRFVDAFKTDK CTHSSIEDLALGRCMEIMNVE AGDSRDTIGKGNFFHFPV\PE\H IIFNLKGYLPRTFWYWNYNYP PVEGGELRFLFSTVTIRHSAKLS LGVAQCSWLLKQVVISDDKTK RPDFPDRSRIMKERVQIVLYES GQAPVESSPPLPGYCSALFATCF QVTGKNFSQDPTQAILYTQADK IEGWMRASGERVAEQSQGTA MDGGKKEAEWKRTKAKYRD DVCSKHHPPYPTPVPPSLED
9007	39375	A	9066	1	311	
9008	39376	A	9067	1	493	ITRQHMRKAVPFQVPRKEILKL LKGGVVVGHALHNDFFQALKI*S TLGARPGDTTYVPNFLSEPLH TRARVSLKDLALQLLHKKIQVG QHGHSSVEDATTAMELYRLVE VQWEQEQEARSLWTCPEDREPD SSTDMEQYMEDQYWPDDLAH GSRGGAREAQDRRN
9009	39377	A	9068	45	365	NQAAASRPHCAARTMAGEEQA ACVHEDRTQCRGDKAAPQAAH LCGPPRGSVSTAPRAR*CPV CSSCPGPGAPEDTPEEVDVGAA SAHRSPRLCCSHLTHRWPKH

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9010	39378	A	9069	3	1687	ICVPKSVPSFLWAGRGPHCLLP CGSSSP*SGGLARA*GVFQGRA GVARAPSHLSFHNSPCVWSLST CCRAGSQDGPCHAAGQGP GK QTSSGTGASSSPWTSCL*KSLPK VCS*GLETITIGRGRVKPIKVT TAQ*CAASVTAPL.ISS*LQDGG STAKVTRCT/TAGGRAVYGTAE GKAFPEAPELTCRS/ALAAAGT WPLPPLQVSCGLRNPSPDLPSV VGSRAV*TKSGSPPAKVWPLA EWFKSGSA/PVTGQEA WLLWA SDSSSELSLCPRKHAAPPHSAEH RQISQGLASSCWGAGGDKVVS ASMVGSAPGQCPMSALMTGSA SGQCPGHPCWSGTNADS*GRDP HRASRLALPTASYEQ*PQPHW GSWTAHQNGLGIFFRVSWF V*GQTMVSRPRISGLGQPVCLS AASPQAAPLGSHDPTAGR*GL EPGGRQPSSS*YVWEAPPGLW VPPGPFLSH*SWRFGRTKAAPL KEPRPGGRCPGDRPSPRAEAGL PQTRKPAIPAIGR/PKKACSLRR PRVILEQSSQHLAAALSSWMQP ALLETGGKAVFFTPGGL

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9011	39379	A	9070	66	1956	PLLAIPAHSTFPARKPEEPPRPD* LCPHIHCAAV*GEIRTV/ SKTV RGVATRTPRSSASLGIITGLR VSSVRRVQLSIKPGCSRVENSS NSPCSSSQPGTSVLPCTVCRE AGP/AGP*PPG*ALSLPAAGFTT ATEWKQSLSSGG*THSGEDM GRATAAATEKAQEQCMLREKL GTRQKAESGSRGAAGLQHFCS APRTAWQPRASRA/RAGVRAW PCADPM*PPSHSPSPKPFIPAA/ PGAQTLGAAGVEHVAGSARIPC CRTGLE/PHPHSPRRTLERQARI SGAGRRSSPNAATGARPRPAA SPVSARRAPRRRPA*SSPCSGPW TAVSAPRSPGPRGGRRPSPGR RRPCCSVFSGGASPSARVSSPS GSCSASPAAAPA/PASGAVVA GPVVGSPREHGG*LRPPLPRLG VPGLLAARTSGAEVIHEQAAAQ GTAADTPGAPGLLLAPAAAGA V/TRPGPPGASGCPRPAPRPPT ASRSGRP/VPGGGRGRRGGRGA GGEALQGAVVGGQVGGSGAL A/ATARGSPAAGVSRWTAPRCR HRRSDASASGTPARFPGAGRKG RTLWQ*SWRSAPPPGLSELL*G LPRPLPESGRSKAPLPSGSTPLPS GRTPLPSGRSPSTRSSPS
9012	39380	A	9071	95	1423	GLENKRAKGTEAHTRACP*GK STEQDITWNTGRNEQQGPRP KGEQTQRKTERKPGRERQVQV LSPPGRWC*DVGPLGGLPSRA KAEAAALTAQKAQGRGSPGS LPKSSPLSAPGKR/TPPRGHLL VPLPSPIYPALLSQHPQGPCCG ASAPPSALLQRAPPPGRTL/Q PPGPRVTCGTTP/MAAKAKSQS NAPRGSLLKKSNSFYNIPLKQV SCLITISKHSRNEVSYYQTSRPR AAATDVPRTPSLSVGCSWSCT RGHWPSSCCPTAPRGQGL*EHS QGPGSRSKLPWPTGPCGGLTPS CWSLAGSAGERVDLNQAAASR PHCAARTMAGKTLSGCGCVD VGAASAHRSRPLRCTISPTDGP NTERGSRKTGWTPGPGFWPCP RPPTSNITTPGLMDSARPGKA PAPFTDFRTPSGLLLPGWAVRA RREEDGCG

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9013	39381	A	9072	42	380	LGAPCTPPRSPRTGRPEYA*A RG*PVGDLRCRGEAVVSTQVLL PRGLQ*NFAVLLQMSCATPPP NCALKGCV*VPLEQSPFFHQAV ACREWKRKGGMVCGGNAS PQ RTEA
9014	39382	B	9073	116	341	
9015	39383	B	9074	52	190	
9016	39384	B	9075	70	310	
9017	39385	A	9076	1349	2456	HCSVPGA EWPRKPPAQICPQLT SRPHLSSPRSLSPGCGHSPGPG* SPQPPVMSLHEGP PRGPQV/PSP VANPQPKPWLLRSVDLPVPWH LPTVDRITSL/APLSQSDV/PAPS GAL*PSGRACSGV/PPID*APEA ALSAAPRPRLGSGQNASGLPA ASLPQDSSQPHKTVPSPARSV PLGAQARAAPPRLWCPHALVS G*EASPEAVSVAAGPPVPGPTPS TSGSTASHSRRCG*SPR*TPAPP RRDHGRSAAFEVLAAAASAQP CASQGGPRPTGAGRTPSPLGLP FSRGPPAASARPFCHPSL*FSW *SSPSGLSLSDTPHSPRRPLGPV CGLRAPCPPIACRVPAASHSQ RWPFGSSSRSCRCQCC
9018	39386	A	9077	462	739	ACEPMVLFCLALLQDLFLGS YPRVLAADFQVFFLGTSDRM* NTGLEYFMLNSWLWLLNRL*S WGELCHFPLHSPVKRGLNFYL QEFFI
9019	39387	A	9078	1	678	GTRVNMILMKMGFSIVVHQE SVCATYGSGLSSTCIVDVGDQK TSVCCVEDGVSHRNTRLCLAY GGSDVSRCFYWLQRAQGFYR ECQLTNKMDWLLQLHL/KRNF LSFRSRTSLGFRMTSFRFRHPDS PALLYQFRLGDEKLQAPMALF YPATFWICWTGK*RPLHTDLRA ILKILTMNITCWPHKAHENSQ KLLLTESLHPNLLDLKGIFVASP LIFQKDSIPR

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9020	39388	A	9079	227	1980	GERLRYGVVTENGKEKGGEKEK EQRGVKRPIVALVPESLQEQIQ SNFIIHVPGSTTLRIGRATDITLP ASIPHVIARRHKQQGQPLYKDR WLLREGLNKPESNEQRLNGLIM VDQAIWSNKMMSGTRRNVPSP EQARSYNKQMRPAILDHCSCN KWTNTSHHPEYLVGEEALYVN PLDCYNHWPIRRQQLNHGPG GGSLTAVLADIEVIWSHAQKY LEIPLKDLKYRWRILVIPDIYNK QHVKELVNMILMKMGSGIVV HVESVCATYSGLSSTCIVDVG DQKTSVCCVEDGVSHRNTRIFS WRSGHLWVQDHEFQIRHPDSP ALLYQFRLEDEKLQAPMALFYP ATFGIVGQKMTTLQHRILRAILR ILTMNITCWPHRANKNSLQKLL LTESLHPNLFERGFELWASPLI FQKDSIPRR*IWGLHREMA*WP ATIPRRPLTALMSRKTAISLFEG KALGLG*SPSSAIDCCSSDDTK KKMYSSILVVGGFDFVIFKASR IFCSTEFSTKCPPSLQADYDKM WM*SQGLKMDMDPRLIAWKG AVLACLDTTQELWIYQREWQR FGVRMLRERAAAFVW
9021	39389	A	9080	1	756	MRRIVALVETGEQPFGAATVGS RFGCLEDLGTDQREHHDHMA AAHTYFIGDGDITLDEDEDIT WGMAGKHAINIEGFKLARVE DEMVFQEREPEKVKIRGRTRGY TFIMLAALAAAEADMVQVGEE L/C*KVSLKASQLGQMALMLQS VTVQIGMVYGLPACGAQVNLQ DDKGSMLV/MCASKHGHMEIK LLLAQLGCNVHLQDNDGSTML SIALEVGHKGITVLLYAHISFAK AQSPGTPRLGMKPKQSF
9022	39390	B	9081	5	5440	

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9023	39391	A	9082	1	4294	WAVFDGNYYYLPWAHTKPV VTLSYWEDISHRLDAVNALLA MAERLQTNIEALKSGIQGKIPA NQLAELWLKLIDEVIEDTRYTL PLTEGKANVTVLDTOIRKLRSR SLSQIHEAAVRMRSEATDVKST LAEIEDWLDKLMQLTEEPQNS MPDIIWMIRGEKRLAYARIPAH QVLYSTSGENASGKYCGKTQTI FLKYPQEKNNPGKVPVELRVNI WLGLSAVEKKFNSFAEGTFTVF AEMYENQALMFGKWG
9024	39392	B	9083	1	339	
9025	39393	A	9084	2	1767	KLYRGKSDENEDPSVVGFEKGS FRIYPLPDDPSVPAPRQFREL DSVPQECTVRIYIVRGLELQPP DNNGLCDPYIKITLGKKVIE/DR DHYIPNTLNPVFGRMVELSCYL PQEKDLKISVYDYDTFTRDEKV GETIIDLNRFLSRFGSHCGIPEE YCVSGVNTWRDSLRLPTQ/LLQ NVARFKGFPQILSEDSGRIRYG GRDYSLDEFANKILHQHLGAP EERLALHILRTQGLVPE/HV/ET RTLHSTFPNISQGGKT/LQMWG GMFFPKSLGPPGPPFNITPRKA KKYYLRV/IIWNTKDVILDEKSIT GEEMSDIYVKGWIPGNEENKQ KTDVHYRSLDGEFNWRFVF PFDYLP/AEQLCIVAKKEHFWSI DQTEFRIPPR/LIIQ/WDNDKFS/ LDDYLGFPRTLTCRHTIHFLOK SPGGNCRVWT*FPGSKAMNPL KAKTASLFEQSMKGW/PCY AEKDGARVMAGKVMETLEILN EKEADERPAGKGRDEPNMNP LDLPNRPETSFLWFTNP/CKTM K/FIVRRFKW/IIIG/LLFL/LL LFVGRAPLTL/PNYFVQWKIVK PNVLTKGKGFISRV/IIQ
9026	39394	A	9085	2	407	

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9027	39395	A	9086	15	759	SARPSHDYSHYYGTIEYLCYKI LGDIIENSRIVLQINNACLAADD F*TKYEREQT/LA/RTDLEMQTE GLKEELA YLKKNHGEINALRG QVGGQISVEVDSALGADATNIL SDMQSQYENRKDAERWFTSCT EELNWEVVGHMEQLQMNRSQ VTDLRCLNQLGLEIELQWQLSM KAALEARFGPQLAQIQAIISSIE AQLGDVRADSERQNEQYQLLM DIKLWLEQELATYLSLLEGGEE HYNLSSTSKIL
9028	39396	A	9087	3	2026	AGPWDRMGAMGSLVGGDLGL VWGCAGEGFAGIPFSCALITQC EGNQGTAKWVQTSTRIKGGQ VKQARGAQVTPYSPLWHGKLG RAAFTFNAPGRWLLPLLLPPL L*ITTCLLGKRTLQEALSLKLE LRKVCLQEA VRAWP*GYQAGR LGGGELGPLGRPPTARAYPPP HPNQAHHSLCPAEV/MQMGEV SKRVGRGDRYRGVARRIMALA PDLSTEQRRRRRQVQADALRRL HELEEQLRDVRLGLPLVPLP QPLPLSTGSVITQTGVCGLMRL AQLSQGEHPLVRVGEWTLANG RGRAGMGDSYPPNLPPTTSL* PIPIFIHPVSGGSPERRTPWKPPPS DL YGDLKSRNRNSVASPTR*E*A PPPLRRSWEWDSKPGLAEGPAS DRASLFVARTRRSNSSEALLVD RAAGGGAGSPPAPLAPSAGPP VCKSSEVL YERPQPTAFSSRTA GPPDPRAARPSSAAPASRGAP RLPPVCGDFLLDYSLDRGLPRS GGGTGWGELPPAAEVPGLPSR RDGLLTMLPGPPPVYAADNSNP LLRTKDPHTATRTKPCGLPPE AAEGPEVHPNLLWMPPTTRIP SAGERSGHKNLALEGLRDWYI RNSGLAAGPQRRPVLPSVGPPH PPFLHARC YEVGQALYGAPSQ APLPHSRSTAPPVSGRYGGCF
9029	39397	A	9088	1	136	
9030	39398	A	9089	14	310	TFLFIYFFFTETESHVPRLECS GVISAHCNHLHLLGSNNATSAS *VAVITGACHHAWLIFVFLVEA GFCHVG/RRLVNS*PQVIRLPW PPKVLGLQA
9031	39399	A	9090	1	436	
9032	39400	C	9091	75	410	

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9033	39401	A	9092	1	6691	MVNTYREVKEGPVIL EDVLIEV FRTLYSQCKAELDLQTEPPFSK DHAQLSSKLRENKKTAELIKTA NLLFNSFEPYMWWDYVARWFE ECCRRTLHVRLQIGPGDSNDSS ELQLTNFCLLVDLFDIVSLIETY IEIQTEHLPQLLRMISALTSHL QTLHLSELTDLSRLCSKILSKVQ PPLL SASTGGVLQFPSSGQNNV KEWEDKKVSSVSHENPTEVFE DGENPPSSRSSESGFTEFIQYQA DRTDDIDRELS
9034	39402	A	9093	293	687	PTAKVYIFSIPLYTHIVCCINTSS LFGFLQKNPEEDNSGRITLQWE PGHLLALTICTVRSMEQLLPFFN VLSQVFNKVTSRCCGHSGSPI LYSNAFPNKDMKLENHKKPCSS KARQKIEEMVEKDFLEGMKT
9035	39403	A	9094	3	4173	IPMVVDFDLDPDQIEILQSSDS GCSQSSAGDNLSEYVDPETVNA QEDSQMPKESSPDDDVQVVF DLICKVVSGLVEVASVTSQLEI EAMPPKCSDDPDDEETIKIEDDSI QQSQNALLSNESSQFLSVSAEG GHECVANGISRNSSPCISGTHH TLHDSSVASIETKSRQRSHSSIQ FSFKEKLEKVSSEKTI VKESGK QPGAKPKVKLARKKDDKKKS SNEKLIKTSVFFSDGLDLENW YSCGEGDIS
9036	39404	A	9095	5	1055	FDLERVRNLTYMVTTRREIKRS VCKVQEQIFNLTYKLEQERVS GVPSSCSSLNMLLFNSPSVG PDAPKIEDLKW/PFCISSENKWW LPWVSFG*KRPKISRILLQN*PW K*RQNPAAEARPVW*KGDDGG PRELFGFRKDLCRSTSHISTTEK WCGDARPEWKKRQSFL*SH*R RLKGRIF*TESQAS/PGPQMCP GIWTTQELPPLEWGSQHLGTR KEIVPKCNGSLIKVNYNQTAVK VPTTPASPVKNWGGFRIPKKGE RQQ/PGRGRWGLPPALRLPIFG LRPSS/TKERAKSKLSDNEND GYVPDVEMSDSESEASEKKCIH TSSTISRRTDIIRRSILAS

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9037	39405	A	9096	3	1136	FDIPFPKIGKLIKSNVPELRGHFP LSITLVLRLLMLASKGDDPEDA KAKVLSVLKHSLLSFQPRVM DMLKLYFLFSLQFLGGKRAI*IQ EG*SYGVCWDLVFTFGIYPWNL SNLVFVSFLVNGLFHDLCOPT KGSKHFSQDVMKELVLVLAHL FGRRYFPKFDQAHFEFYQSKV FLDDLPEDFSADALDEYNMKIME DFTTFLRIVSKLADNMQEYQLP LSKIKFTGKECEDSQLVSHLMS CKEGRVAISPFCVCLSGNFDDDL LRLETPNHVTLGTIGVNRSQAP VLLSQKFDNRGRKMSLNAYAL DFYKHGSLIGLVQDNRMNEG AYYLLKDFALTIKSISVSL/HVT YCENEDDNNVVLAFEQSLTTFW
9038	39406	A	9097	2	522	
9039	39407	A	9098	3	1080	FLLPFSHQSKKENSQDLMTLFT SFNSLHSAVESFFQATGNSSTNL ADDGKRRTVTPVILTKIDGVN VDTHHIPVNVTLRRIAHGADAV AARWDFDLNQGQGWKSDGC HILYSDENITTIQCYSLSNYAVL MDLTGSEL YTQAASLLHPVVY TTAILVLCLLAVIVSYIYHSLI RISLKS WHMLVNLCHFIFLTCV VFVGGITQTRNASICQAVGIILH YSTLATVLWVGVTARNIYKQG H*KS*KMPRIPEP/RTFNQDQW LRFYPDLVGGYPPSLVLA*LA AANIKELRQSAKPHY/WLGW HGNPPWEAFYGPASFSTFVNC MYFLSIFIQLKRRPERKYELKEP TGQQRLACQ
9040	39408	A	9099	1	307	
9041	39409	A	9100	2	286	

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9042	39410	A	9101	35	1211	EKDLLWEEKFPDRTTVTELQPT SHVSFSEPDIPSSKSTELPVDWSI KTRLFTSSQPF TWADHLKAQE EAQGLVQHCRATEVTLPKSIQD PKLSSSELRCTFQQLIYWLHPAL SWLPLFPFRIGADRK MAGKTSF WSNDATLQHVLMSDWAVSFIS LYNLLKKNFSPYFYVCTYQFT VLFRAGLAGSDLITALISPTTR GLREAMRNEGIEFSLPLIKESGH KKETASGTSGLGYGEYVVIKIL/S SSTDLTWTHEIDLHRNSL*NRDS NCSNF/LREQAISDEDEEESFSW LEEMGVQDKIKKPDILSIKLRKE KHEVQMDHRPESVVLVKGINT FTLLNFLINSKSLVATSGPQAGL PPTLLSPVAFRGATMQLKARS VNVKTQALSGIQRPI
9043	39411	C	9102	48	464	
9044	39412	A	9103	1	140	MNRLKKEWMLEHIVENNSGM ESQDIKGHFHAADKDLLEMGY LQKRGLIGLTVLHGWGGLTIM AEG*KRSGCLSTLWKITPAWNL KTLKAIFMLLIKTYLKWAIYKR
9045	39413	B	9104	1289	2767	
9046	39414	A	9105	3	1278	INNTNTFRVLPHPSFVYTAKFHP AVREL VVTGCYDSMIRIWKVE MREDSAILVRQFDVHKSFINSL CFDTEGHHMYSGDCTGVIVVW NTYVKINDLEHSVHHWTINKEI KETEFKGIPISYLEIHPNGKRLLI HTKDSTLRJMDLRILVARKFVG AANYPGEDS*YFD/VH/GGTFLF AGSEDGIVYVWNPETGEQVAM YSDLPFKSPIRDISYHPFENMVA FCAFGQNEPILLIYIDFHVAQQ EAEMFKRYNGTFPLPGIHQSQD ALCTCPKLPHQGSFQIDFVHT ESSSTKMQLVNQRLETVTEVIR SCAAKVNKNLSFTWPPAVSSQ QSKLKGSNMLTAQEILHQFGFT QTGIISIERKPCNHQVDTAPTIV ALYDYTANRSDELTIHRGDIIRV FFKDNEWDWYQGHRERQEG

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9047	39415	A	9106	1	1249	MAVLIFLGCLLGGAIGLPIAWA LLLCGAALMFWLDMDVDVQIMA QTLVNGADSFSLAIPFFVLAGE IMNAGGLSKRIVDLPKLVGH KPGGLGYVGVLAAMIMASLSG SAVADTAAVAALLVPMMSA NYPVNRAAGLIASGGIIAPIPPSI PFIIFGVSSGLSISKLFMAGIAPG MMMGATLTGKRARFTEDDTR ERDAISVINHQRNAVLIRQVRK LQQLFVIRVLAMRIFYGSLRH KQGNSHWMTNAQLLGDFSIDN YQLYSLGHYPGAVPGNGTVHIG EVYRIDNATLAELDALKTRGGE YARQLIQTPYGSAMWYVYQRP VDGLKLIESGDWRVLRWLRVH SIDVPDPFGLTVTGDRDTRAG KTSPAQAGCKLFLTNPLGIGVL TTAEKKSLLKPEHQGLATEVM CRMNIAGASFANIEGVKAMTD VTGFGLLGHLSEMCQGAGVQA RVDYEAIPKLPVVEEYIKLGAV PGGTERNFASYGHLWLR*LAL AP/LEVVEANGSL*CSGERGCL YGQTTTIQLNFRPAFCPEHAIG QKVAILRLNMQIDIKRVSSRTH GNHFTNFKFTVQHYRSCLT

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9048	39416	A	9107	162	2106	KMSKLLKIAVSDSCDPDCFITTQRE CIYNESNRNIDVAAIVLSLNDVT CGKLDIEDATGYGIPVFIATENQ ERVPAEYLPRIISGVFENCESRRE FYGRQLETAASHYETQLRPPFF RALVDYVNVQNSAFDCPGHQG GEFFRRHPAGNQFVEYFGAVPC RLVIPALKKQRKLSLLETAIVV VDRFSGEVRAMVGGSEPFAG YNRAMQARRSIGSLAKPATYLT ALSQPKIYRLNTWIADAPIALR QPNGQESVRVMLVDALTRSM NVPTVNLGMALGLPAVTETWI KLGVPAKDQLHPVPAMLLGALN LTPIEVAQAFQTIASGGNRA'PL SALR*TIAEHGKELYQSFPQAE AVPAQAAAYLTLWTMQVQVQR GTGRKLGAKYPNLHLAGKTGT TNNNVDTFWAGIDGSTVTITW VGRDNNQPTKLYGASGAMSIY QRYLANQPTPLNLVPPEDIAD MGVDYDGNFVCSGGMRILPV WTSDPQSLCQSQSEMQQQPSGN PFDQSSQPQQPQQQPAQQEQ KDSGDGVAGWITDMFGSNEHLS GYELDSYPLSSARRRARFTEDD TRERDAISVINHQRNAVLIRQR VKLQQLFVSNHIACWIRRPQDA NHPGFFANMQMLKIDVVFKLA FRQQFNIRTRRDQIQQSGVT
9049	39417	A	9108	1	66	
9050	39418	C	9109	79	150	
9051	39419	A	9110	2	475	GRGRWGAPRLRGAL*DP*GHF LGQQPRPQLHSPAPDR/PAPTPT DAEGL/PPAAAAAAGATARVP GSRGG*GQAAELHEAGEAQA CRGGTEDEEHG**HLCHGRAS* CPGVSGSTGSPHPSMAPDDT SGLLEFVGVPQLTLFAVWSPA AAEQRL
9052	39420	A	9111	171	462	PTSMGHLYSFPGN*SHAHYHPI KT*SPLPHSTPISNPSA/PLKGLK PVITRLIQHGLLKPINSPYHSPI PVLKPKDKAYKLVQNLRLINQIV LPIHSM
9053	39421	A	9112	1	573	
9054	39422	C	9113	100	297	
9055	39423	A	9114	1	1401	

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9056	39424	A	9115	24	482	VGSGDLPWEGNPLSSCSLLHEK DPPTTSGPQT/GP/GPRNISPILNR AAPRQAQLGPNSSASAPPYPN PFITSPHTWSALQFRFVTSPPPP AQQLTLKKVAGAKGTVEHFC HDLPASSMQSNYPVHDSGHILT TGPSLFKPTLNIEYSTGHAP
9057	39425	A	9116	1	489	
9058	39426	A	9117	1	642	
9059	39427	A	9118	237	748	ETNPLSSCSLLRKDPPTTSSPQ THQPKKHPPISNPAAAPHQAE LG PNPSSASAPPYNLFITSPHTW SGLPFRSVTSPPPAQQFTLKKV AGAKGTVKTITDIELQVTLTVE ARLRPGEINSHVAHTKPVWWS LHTDTCDIWCRPGTGGLLQET SPLSSPSLCEEHL
9060	39428	A	9119	63	255	WVSGSVQVKVERGWDEGCKGI VKKACLTYTNRIMHCVGRY*A *ESIWVWHHGVNRQNNLVDKA
9061	39429	A	9120	24	389	SDVKANLSTGGPVGCGGDTL/P VAEKPSDAVEAPGV*APSAGG AGPA\PSPGLEPSGAPPP/ALPP RAVLDSGLAPGRPLPLASSNP/P PAGRRLLLCTSPGRRGGAAAGSG PRCPESKSIPLRCL
9062	39430	A	9121	704	867	CVKECLDVRHLRPFAYFTTRII* ILQDQGIQSAIF/CVIWNYCRVCI GVKRHSRRK
9063	39431	A	9122	1	7068	
9064	39432	A	9123	2	165	LLKRELNFDFYKISTTKERHLQ QS*PKDS\VPSSLASQTPNAPFL APQRRCLLA
9065	39433	A	9124	1	148	IRHSVNLLRAG/RIFVFEPPLGLK ANTQRTFESGMKHVRIIYMMEF HVF

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9066	39434	A	9125	1	2340	QFGIWLDSSEPEQTVPYLWSEE TPATPIGQAIHRLLIQAFRPRD LLAMAHMFVSTNLGESVMSIM EQPLDLTHIVGTEVKPNTPVLM CSVPGYDASGHVEDLAAEQNT QITSIAIGSAEGFNQADKAINA VKSGRWVMLKNVHLAPGWL MLEKLLHSLQPHACFLFLTME INPKVPVNLRLRAGRIFVFEPAP GIVKANMLRTFSSIPVSRICKSP NERARLYFLAWFHAIQERLR YAPLGWSKKYEFGESDLRSAC DTVDTWLDDTAKASGRQNISP DKIPWSALKTLMAQSIYGGRR DNEFDQRLNLTFLERLFTTRSF DSEFKLACKVDGHHQIMPDGI RREEFVQWVELLPDTQTPSWL GLPNNARVLLTTQGVDMISK MLKMQMLEDEDDLAYAEATEK KTRTDSSTGRPAWMRTLHTT ASNWLHLIPQTLSHLKRTVENI KDPLFRFFEREVKMGAKLLQD VRQDLADVVQVCEGKKKQTN YLRTLINELVKGILPWSWSHYT VPAGMTVIQWGVPIARRIKQ LQNISLAAASGGAKELKNIHVC LGGLFVPEAYITATQYVAAQAN SWSLEELCLEVNVTTSQCATLD ACSFVGTGLKLQGATCENNKL SLSNAISTALSLTQLRWVKQTN TEKKASVVTLPVYLNFTADLI FTVDFEATKEDPRSFYERGGG
9067	39435	A	9126	3	6375	HKVAAPDVVVPTLDTVRHEAL LYTWLAEHKPLVLCPPGSGK TMTLFSALRALPDMEVVGNLFS SATTPELLLKTFDHYCEYRRT NGVVLAPVQLGKWLVLFCDEI NLPDMDKYGTQRVISFIQMV HGGFYRTSDQTVVKLERIQFV GACNPPTDPGRKPLSHRFLRHV PVVYVDYPGASLTQIYGTFR AMRLIPLSLRTYAEPLTAAAMVE FYTMSQERFTQDQPHYIYSPR EMTRWVRGIFEALRPLE

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9068	39436	A	9127	3	617	SWFQPPSGPPWPGA\PPPPPLAR VNPGVVPSLTTSMDVEP* A Q V ELPSHPRVPSAPGPAP* VLEPP RSLTTSVVGPPQGPSWAGGMA VRQALEEAACRDPCIAISSWAG GDRPLWWLDGLLLRRVYPDSC PPCPSRIPIFGASLQGSINPILQ MRKLFPHMDLL*GQDPFSCR RPESWNRDVGWLGALGVFCLVP FSLVGSLN
9069	39437	A	9128	1	702	
9070	39438	A	9129	1	1317	
9071	39439	A	9130	1	2641	MGLKARRAAGAAGGGGDDGGG GGGGAANPAGGDAAGDEE RKVGLAPGDVEQVTLALGAGA DKDGTLLLEGGGRDEGQRRT QGIGLLAKTPLSRPVKRNNAKY RRIQTLIYDALERPRGWALLYH ALVFLIVLGLILAVLTTFKEY ETVSGDWLLETFIIFGAEF ALRIWAAGCCCRYKGWGRRLK FARKPLCMLDIFVLIAVSPVVA VGNQGNVLATSLRSLRFLQILR MLRDGPGEGGTWKLGLSAICA HSKELITAWYIGFLTILSSFLV YLVEKDVPEVDAQGEEMKEEF ETYADALWWGLITLATIGYGD KTPKTWEGRLAATFSLIGVSFF ALPAGILGSLALKVQEQHRQK HFEKRRKPAELIAAWRYYA TNPNRIDLVTWRFYESVVSFP FFRKEQLEAASSQKLGLLDRVR LSNPRGSNTKGKLFPLNVDAL EESPSKEPKPVLNNKERFRTA FRMKAYAFWQSSSEDAGTGD MAEDRGYGNDFPIEDMIPTLKA AIRAVRILQFRLYKKKFETLRP YDVKDVEIQSAGHLDMLSRK YLQTRIDMIFTPGPPSTPKHKE VFRKGQHFTFPSQSSRGLNHH *ARPSTSEIEDQRH*WGKFVKS LKGVVQGLGRKLDLVDMMH QHMERLQVQVTEYYPTKGTSS PAEAEKKEDNRYSDLKTIICNY
9072	39440	A	9131	353	477	QNEILPQISKSNNPI*SRSPH*ITR NLNNSNMAHKMKFAN
9073	39441	C	9132	170	310	

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9074	39442	A	9133	1	859	MSCGRPPDPVDMITLKVDNL TYRTSPDSLRVFEKYGRVGDV YIPREPHTKAPRGFAFVRFHDR RDAQDAEAAMDGAE*EGRAL RIQVARYGRRDLPRSRQG/PTP RGRSRGGGYGRRSRSYGRRSRS PRRR/HRRNRFPCSCSRRRGR YRGSRYSRSPYSRSPYSRYSR SPYSRYSRYSRSGSHYSSSG YNSRYSRYHSSRSHKPGSSTS SRASSTSKSSARRSKFSVSR RSR/SRSSMTSRPPGVSKRKSK SR/SRSKRPPKSPEEGQMSS
9075	39443	A	9134	161	332	SCLNQLN/YLEMWKLFRKAQE DHTLGRDISYVAEVRPGEAGGR AHTGDSLLTMNPSFL
9076	39444	A	9135	1123	1489	LQTLQGHNSQNSMVLVPKQR YRSMEQNRAIRNNVTYLQSD L*QA*EKQAMGKGFIS*MLVG KLASHM*KAESGLPYTLYKN* FKMD*RLKH*T*NHKNPRRKPR HYHSGHRHGQGLHV
9077	39445	A	9136	277	367	
9078	39446	B	9137	1	1136	
9079	39447	A	9138	3	1168	
9080	39448	A	9139	1	1460	ERGLETNCSSEELSSPRGGG GGGRLLLOPPGPELPVPVFLQD LVPLGRLSRGEQQQQQQQPPP PPPPPGPLRPLAGPSRKGSFKIRL SRLFRTKSCNGSGGGDGTGK RPSGELAASAASLDMGGSAG RELDAGRKPKLTRTQSAFSPVS FSPLFTGETVSLVDVDSIRGLI SPHPPTPPPPRRSLSLDDISGT LPTSVLVAPMGSSLSQSFPLPPP PPHAPDAFPRIAPRAESLHSQ PPQHLQCPLYRPDSSSFAASLRE LEKCGWYWGPMNWEDAEMK LKKGKPDGSFLVRDSSDPYILSL SFRSQGITHHTRMEHYRGTFSL WCHPKFEDRCQSVVEFIKRAIM HSKNGKFLYFLRSRVPPELPNS CQLIYPMRSFSIYESFQHLAKF RIRQLVRIDHIPDLPLPKPLISYI RKFYYYDPQEEVYLSLKEA/QS VSKQKQEVET*RGAPCWSPP RAFGCAAPALKNQIKLP

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9081	39449	A	9140	2	418	KSPSKYLCYTFIISTAALVLLIM LPHESMPVYLGMACTLGFGAIV FTQRAVFFFAPIGEAKIAENKTG AAMALGSFIGYAPAMFCFSLYG YILDNLNPGIIGYKIVFGIMACFA FSGAVVSVMLVKRISQRKKEM LAEEA
9082	39450	A	9141	26	180	KPAHQCVFFCPVVSAAHQGEV LPYKSGVTSIESFVTHICKVIRR* LLSFLA
9083	39451	A	9142	299	921	FGTAALVL*IVLPPEISPSH*GM ACTLGLGAI/VLTQRAV/FFAPIG EAKIAENKTGAAMALGSFIGYA PAMFCFSLYG YILDNLNPGIIGYK IVFGIMACFAFSGAVVSVMLVK RISQRRIRRLRRIRQFHRRNTSS RYGSGFARGGRKATRGISSQEL GQGLSGEEQDGASGGVTAGDI ATGDYFLLTPHLQICTGAKGGL GCVVEGR
9084	39452	A	9143	1	752	MSELPFAIASKRKEYVGIQLPR YTIQKLEENLVFLDRSGHRT KFTNVGRMILLERGRVLLQAAD KLTTDAEALARGWETHLTIVTE ALVPTPAFFPLIDKLAAKANTQ LAIIT*VLAGA WERLEQGRADI VIAPDMHFRSSSEINSRKYLYL MNVVYAAPDHPHQEPEPLSEV TRVKYRGIAVADTARERPVLTV QLLDKQPRLT VSTIEDKQALL AGLG VATMPYPMVEKDIAEGR LRVVSPESTS
9085	39453	A	9144	389	760	SWRIDVHPV*YTRLFPFVLVY MQKGT SIRTSSRQLLDKQPRLT V/STIEDKQALLAGLGVA/TMP YPMVEKDIAEGR LR/VVSPESTS EIDHMAWRVTKRTPKN*WTM MPENIGEYTKTHILG

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9086	39454	A	9145	1	941	MTAMERSRILRRVVDILRRND ELAKLETLDTGKAYSETSTVDI VTGADVLEYVYAGLIPALEGSQI PLRETSFVYTRREPLGVVAGIG AWNYPQIALWKSAPALAAAGN AMIFKPSEVITPLTALKLAEIYSE AGLPDGVFNVLPGVGAETGQY LITEHPGIKVSFTGGVASKKKV MANSAASSLKEVTMELGGKSP LIVFDDADLDAADIAMMANF FSSGQAKR/NGARVLCGGDGVR ARDRPNLRRENLRGKYHS*QR HRRPDAC*YRPL*RCGGRYAD D*VQAGAGSDGL*ATGHGRR EC*PYVTGEAG
9087	39455	A	9146	3	504	DQQQNRQR/LIDCFHPAQWAKE VDVSDKEARCGVRCATRDHLP MVCNVPDYEATLVEYASSAEH KDDAVSAPVFDLDFILGSRGLC SGPLCAEILAT*IS/DEPMPMDA SMLAALIPNRLVWRKLLKGKA VKAGAVHFRRSIYFHPQQANA LDPFSTHIKYCTMLL
9088	39456	A	9147	197	353	YGFRWPD*AHPAIN*ASAAISIF LRWLRLTSITETAPLNAKQAI MPNTIL
9089	39457	C	9148	1	1263	
9090	39458	A	9149	3	726	GAKNAREAIYHIEGDPDPHPIEN RLRYPEYRAPGSDKWQRISWEE AFSRIAKLMKADRANFIEKNE QGVTVNRWLSTVNKKKISLRT VGAALVLQVVIGGIMLWLPPG RWVAEKVAFGVHKVMAYSDA GSAFIFGSLVGPKMDTLFDGAG FIFGFRVLPPIFVTALVSILYYI GVMGILIRLGGIFQKALNISKIE SFVAVTTIFLGQNEIPAIVKPFID RLNRNELFTAICSGMASIDG
9091	39459	B	9150	1	1662	
9092	39460	B	9151	1	2658	
9093	39461	C	9152	1	2526	
9094	39462	A	9153	422	585	PYRLKQNIAGA*PIKLNPNAIAAP VLFSIAFASTIGAKIL.LAVLRSLR PHPSVHA
9095	39463	A	9154	1275	1485	
9096	39464	A	9155	1	439	

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9097	39465	A	9156	1049	2195	NMPKASSCRFSTATTYLRDRSC K*PWAGS*KKNSWR*CRRTTS SHRTRLNATWGSVVKRRTKAR CSMVCSARGS/SNARGLELVKE GRAQACVSAGNTGALMGLAK LLLKPLEGQNHMRLLRWEAKL AALVRLQENTAQPVPFAPNNA RPLTLEDDRLSCTVRGYNFAITF SKMSGKPTSWQLVASALATKI AHEVNPQNQVGCMLAGGNFYF YSCKPEDVWAALEKDRENLFIF DVQARGTYPAY SARVFREKGV TINKAPGDDEILKNTVDFVSFSY YASRCASAE MNANSSAANVV KSLRNPYLQVSDWGWGIDPLG LRITMNM MYDRYQKPLFLVEN GLGAKDEFAANGEINDYRISY LREHRCNGRSDCRQAFR
9098	39466	B	9157	482	542	
9099	39467	A	9158	115	1662	TPYPDAITTHDIVDTPYVQGG VRVLVFSASLVRVSSVLFSLV WGFVSFCRRFVPCRVCVLLCCL FWCFVFGVWLPRRHMSNHAAL GVGEQQCQRGNINGAPETFAS MANTGT*QW/QRISWEEAFSRI AKLMKADRDANFIEKNEQGV VNRWLSTASLAPTEFRGAMTN HWVDIKNANVVMVMGGNAAE AHPVGRWAMEAKNNNDATLI VVDPRFTRTASVADIYAPISGT DITFLSGVLRyliENNKINAeyv KHYTNASLLVRDDFAFEDGLFS GYDAEKRYDKSSWNYQLDE NGYAKRDETLTHPRCVWLLK EHVSRYTPDVVENICGTPKADF LKVAPDRNTTFLYALGWTQHT VGAQNIRTMAMIQLLLGNMGM AGGGVNALRGHSNIQGLTDLG LLSTSLPGYLTLPSEKQVDLQS YLEANTPKATLADQVNYWSNY PKFFVSLMKSFYGDAAQKNN WGYDWLPKWDQTYDVIKYFN MMDEGKVTGYFCQGFNPVASF PDKNKVVSLSKLKYMVVIDP LVTETSTFWQNHEAAVSGGKR PGRKRLNLLPMARLTTTIIASAT YANISAQWAKRLQTAFR
9100	39468	A	9159	1	2235	
9101	39469	A	9160	1	1821	

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9102	39470	A	9161	14	1785	FDQVEERVSVIEDQMNMKRE EKFREKRVIRNEQSLQEIWDYV KRLNLHLIGVPESDWENGTKLE NTLQDIIQENFPNLARQANIQQ EIQRMPQRYSSRRITPRHILNA HKRK*ERYKIDTLTSQKLEK QEQTYSKASRRREITKIRAEI.KE IETQKTLQKINESRSCFEKINKID RLLARLIKKKREKNQTDVIKND KGDITDPTETIQTIREYYKHLY TNKLENLEEMDKFLDTYTLPL NQEEVESLNRPTGSEIAHNSL PTKKSTGPDRTAEFYQRYKEE LVPFLKLFQSEIEGILLNSFYE ASTILJPKAGRDTTKKENFRPISL MNIDAKILNKILANRIQQHIKLL IHYNQVSFIPGIQGFENICKSIN VIQHINRTKDNHTIISDAEKA FDKIQQPFMLKTLNKLGDGTY LKIMTAIYDKPTASTILNGQKLE AFPLKTGTRQGCPLSPLLFNIVL EVLARAIRQEKEIKGIQLGKEEV KLSLFADDMMIVYLENPVSAQT LLKLISNFSKISGYKINVQKSQV FPYTNNRQTESQIMSELLFTIAS KRKIVVGQLTRDVKDLFKEN
9103	39471	B	9162	1	2025	
9104	39472	B	9163	67	3156	

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9105	39473	A	9164	1	2019	MDTIKNDKGDTTDPTEIQTTIR EYYKHL YANKLENLEEMDKFL DTYTL PRLNQEEVESLNRPVRG SEIEAIINSLPT/KKSPGPDEFTAE FYQRK\AFDKIQAFTLKTLNK LVIDGTYRKIIRAICDKPTANIIL NGQKLEAFPLKTGTRQGCPLSP LLFNIVLEVL DRAIRQEKEITCIQ LGKEEVKLSLFADDMIVYLENP IISAQNLLKLISNFSKVSGYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKKIKYLGQLTRDVKD LFKENYKPLLNEIKEDTNKWEN IPC SWVGRINIMKMAILPKVIYR FNAIPIKLPVAFTELEKTTLKFI WDQKRAYIAKSILSQKNKAGVI MLPDFKLYYKATVTKTAWYW YQNRDIDQWNRTEPSEIMLHIY NYLIFDKPDKDEQWGKDSL FN KWCWENWLDIWRKLLDPFLT PYTKINSRWKDLNVRPKTIKTL EENLGNLTDIGMGKDFMSKTP KAMATKAKIDNWDLIKLSFC TAKETTIRVNRQPTKWEKIFTT YSSDKGLISRIYKELKQIYKKKT NNPMNKWAKDMNRHFSKEDI YAAKRHMKKCSSLAIREMQIK TTMRVHLTPVRMVIKKSGNNR PPLSKEQPIFRLSILATTRDGN PAAVENVLHIKATLSFQQTHKA FYFQPS
9106	39474	A	9165	1	3477	

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9107	39475	A	9166	1	2460	MGDFNIPLSTSDRSTRQKVNKD TQELNSALHQADLIDYRTLHP KSTEYTFPSAPHHTYSKIDHIVG SKALLSKCRRTEIITNCLSDHSA IKLEIRIKKLTQNCSTTWKLNNL LLNDYWVNNEMKAEIKMFFEI NEDKDTTYQNRWDTFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTHSKASRRQEI TEIRAELEIETQKTLQKMNES RSWFFKEINNIDRLRLARLIKKKR EKNQIDAIAKHNHKGDTTNPTEIQ TTIREYDKHLYANKLENLEETD KFLDTYILPRLNQEQUESLNRPI TGAIEIAIINSLRTKKSPGPGGF TAEFYQRYKEE/HVLEVLARAI RQEKEIKGIQLGKEEVKLSLFA DDMTVYLENPTVSAQNLLKLIIS NFSKVSGYKINVQNPQAFLYTN NRQTESQIMSELPFTIASRKIKY LGIQLTRDMKELFKENYKPLLS EIKEDINKWKNIPCSWVGRINVR KMAILPKVIYRFNAIPKLPMTF FTELEKTTFKFIWNQKRARIAK SILSQKNKAGGITLADFKLYYK ATVTKTAWYWYQDRHIDQWN RTESSEIMPHIYNLIFDKPDKN KKWGKDSL FNKWCWENWLAI CRKLKLDPLTPYTKINSRWIK DLNVPRPKTIKLEENLGITIQDT GMGKDFMSETPKAMATKDKID KWDLIKLSFCTAKETTIRVNR
9108	39476	A	9167	1	1389	

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9109	39477	A	9168	1	1659	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIRSLH AKSTEYTFSSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRKIKNLTQNRSTTWKLN NLLNDYWIHDEMKAIEIKMFF ETNENKDDTTYQNLWDAFKATA SKTNKEKEKNQIDTIKNDKGDI TTDPTEIQTTIREYYKHLIYANK LENLEEMDKFLDTYTLPRLNQE EVESLNRPIITGAEIVAIINSLPTK KSPGPDGFTAIFYQRYKEELHI NRAKDKNHMIIISIDA EKAFDKI QQPFMLKTLNKLIGDGYFKIIR AIYDKPTANILNGQKLEAFPLK TGTRQGCPLSPLFNIVLEVLAR AIRQEKEIKGIQLGKEEVKLSLF ADDMTVYLENPIVSAQNLLKLI SNFSKVSQYKINVKQSQAFLYT NNRQTESQIMSELPFTIASKRJK YLGQLTRDVKDLFKENYKPLL KEIKEDTNKWKINPCSWVGRIN IMKMAILPKVIYRFNAIPKLP TFFTELEKTTLKFIWNQKIRARI AKAILSQKNEAGGITLP
9110	39478	B	9169	1	1716	
9111	39479	B	9170	1	3171	
9112	39480	A	9171	1	2952	MLLNQGRKLPVFAEETLKFK GTSNKPQTLEQISTSHAAQKEAT VMVPGSNQEIPSGAYAIRALGF KHKTGRLFEQTLNVLQEFLLTP QWHLECCQERTVHSPGKAAEA REPSVIDRHLEQSSNWHLVGA ALGQSQRKEQAAIFAVLQPLL VIPRQTGSGVDLQKTPDLOQR GLIVRRKTNKQKGIHVHNSTRE QNWTENEFDKLEGGFKRWVI TNSSELKEHVLVTQCKEDKNLEK SAIKLELRKINLIQN
9113	39481	B	9172	1	2406	
9114	39482	A	9173	1	2307	

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9115	39483	A	9174	3	2776	QRDLDSHTLMGDFNTPLSILDR STRQKVNKDTQELNSALHQAD LIDYRTLHPKSTYTFPSAPHH TYSKIDHILGSKALLSKCKRTEII TNCLSDHSAIKLELRITLTQSH STTWKLNNLLNDYVWHNEM KAEIKMFFETNENKDDTTYQNL WDAFKA VCRGKFIALNAHKRK QERSKIDTLTSQLKELEKQEQT HSKASRRQEITKIRAELEKIEITQ KTLQKINESRSWFFERINKIDRP LARLIKKKREK
9116	39484	B	9175	133	3213	
9117	39485	A	9176	284	1689	QNFNGFKDLL*RSW*REKSWI CML*ARNTASRQQRNKAGQR MTLMS*EKKASDDQTSPS*R/Q EVRTHRKEAKNLVKRLDKWLN RITSVEKSLNDLMELKTM/RTR TTT*MHKLQ*PI*SFGKKEIQT IREKHLIYANKLENLEEMDKFL ETYTLPRLNQEEVESLNRPITGS EIEAIINSLPTKNSPGPDRFTAKF YQMYKEELVPFFLKLQFSIEQE GILPNSFYEASIIIPKGRDPTK KENFRPISLMNIDAKIFNKILAN QIQQHKKLIHHDQMGFIPGMQ DWFNIRKSINVIQHINRTKDKN HTIISIDA EKA FDKIQCFMLKT LNKLGIDGTYVKIIRAIYDKPTA NIILDGQKLEAFPLKTSTIQGCP LSPLLFNIVLEVLARAVRQEKEI KGIQSGKEEVKLSLFADDMTV YLENPIISAQNLKLSNFSKVS GYKINVQKSQAFLYTNNREP
9118	39486	A	9177	1	1515	

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9119	39487	A	9178	3	1601	ESRS*FFEKINKI/D/RLARLIKK KREKNQIDAINKDGDITDPT EIQTITREYYKHLTYNKNLENLEE MDKFLNTYTLPRLNQEEVESLN RLITGSEIAIINSLPTKKSPGLD TFTAIFYQRYKEELVPFLKLF QSIEKEGILPNSFYEAIIILIQKP RDTTKENFRPISLMSINAKILN KILANRIQQHIKKLIHHDQVGS PGMKGWFNICKSINVQMHNRT KYKNHMIISIDEEKAFQKIQKRF MLKTLNKLSDGTLYLKIRAIYD KPTANIILNGQKLEAFPLKNGT RQGCPLSPVLFNIVLEVLARAI/ RLISCFSKVSGYKINVQKSQAF YTNNRQTESQIMSELPFTIASKR IKYLGQLTRDVKDLFKENYKP LFNEIKEDTNKWSIPCSRVGRI NIVKTAILPKVIYRFNAIPIKLP TFFTELEKTTLKFIWNQKRACIV KTILSKKNKAGGITLPDFKRY KATVTKTA/WSFHELGKTQLAT RTTVSTFQQIPGI*VQLRDFSR DITLLSLLCR
9120	39488	B	9179	1	2034	
9121	39489	B	9180	1	2088	
9122	39490	A	9181	1	1870	MKAIEKMFETNENKDDTTYQN LWDTFKAVCRGKFIALNAHNR KQERSKIDTLTSPLEKEKQEQT HSKASRRQEITKIRAELEKETQ KTLQKINESRSWIFESINKIDRPL ARLIKKKREKNQIDAINKDGD IITDPTIEQTITREYYKHLTYN LENLEEMDKFLDYTLPRLNKE EVESLNRNPTGAIEIVAIINSLPTK KSPGPDGFTAIFYQRYKEELVP FLIKLFQSIEKDGLPNSFYEASI ILIPKP
9123	39491	A	9182	1	1410	
9124	39492	A	9183	1	3996	

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9125	39493	A	9184	281	3030	KPRL ENYMKNAEASRADAINW KKG Y/LVMEDKMNMKREGKF REKRIKRNKQSLQEIW DYVKRP NLRLISVPESDRENGTKLENTL QDIHQENFPNLA RQANIQIQEIQ RTPQRYSSRRATPRHIVRFSKV EMKEKMLRAAREKEIQTNIREY YKHRYANKLENLEEMDKFLNI YTLRRLNQEEVESLNRPIRGSEI VAIINSLPTKKSPGPDGFTA EYY QRYKEELVFP LLKLFQSIEKEGI LPNSFYEASII
9126	39494	A	9185	1	2250	
9127	39495	A	9186	248	2385	RQWAGVVGRC SHLASVWSSNT SETGAIRSSTEVDAPDDSM LLST CDIDLTAARRAWLGCLPTKKSP GPDGFTA E FYQRCKEELVPFLL KLFQSI/EKEGILPNLFD EASII PKRGRD TT KKENFRPISLMNID AKILNKILANRNQQHIKLIHH DQVGFI PMGMQGWFNICKSINV QHINRTKDKNHNMIISIDAEKAF DKIQQPFMLKTLNKL GIDGTYL KIIRAIYDKPTANIILNGQKLEAF PLKTGTGRGCLP L LFNIVLEV LARAIRQEKEIKGIQLGKEEVKL SLFADDMIVYLENPIVSAQNLL KLISNFSKVSAYKINVQKSQAF LYTNNRQTESQIMSVFPFTIASK RIKYLGIQLARNAKDLFKENYK PLLNEIKEDTKK WKNIPCSWVG RINIVKMAILPKVIYRFNAIPIKL PMTFFTELEKTTLKFIWNQKRA RIAKSILSQKNKAGGITLPDFKL HYKITVTKTAWY WYQNRDIDQ WNRTEPSEITPHIYNYLIFDKPE KNKQWGWKDSLFNKWCWENWL AICRKLKLDPLTPYTKIHPRWI KDLNVRPKTIKLEENLGNTIQ DIGMGKDFMSKTPKAMA AKA KIDKWDLIQLKSFCTAKETTIRV NRQPTKWEKIFATYSSDKGLIS RIYKELKQIYKKKTNNPIKKW AKDMNRHFSKEDIYAANKHM KKCSPSLAIREMQIKT TMRHYL

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9128	39496	A	9187	1	2229	MGKKQNRKTGNSKTQSA SPPP KERSSSPATEQSWMENDFDEL R EEGFRRSNYSLELREDIQTGKGE VQNFKEKNLEECITRITNTEKCLK ELMELKTKARELREECRLSRSR CDQLEERVSADEDEMNMKRE GKFRERIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIHQENFPNLARQANVQI QEIQRTPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKEIQT TIREYYKHL YANKLENLEEMD TFLDTYTL PRLNQEEVESLNRPI TGSEIVAIINSLPTKKSPGPDGFT AEFYQRYKEELVPFLKLFQSIIE KEGILPNSFYEAIIIPKGRDT TKKENFRPISLMNIDAKILNKIL ANRIQQHIKKLIHHDQVGFIPG MQGWFNIRKSINVIQHINRAKD KNHMIISIDA EAKFDKIQPFML KTLNKLIGIDGT YFKIIRAIYDKP TANIILNGQKLEAFPLKTGTTRQ GCPLSPLL FNI VLEVLAIRAQE KEIKGIQLGKEEVKLSLFADDM IVYLENPIVSAQNLLKLISNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMGELPFTIASKRIKYLGIQ LIRDVKDLFKENYKPLLKEIKE DTNKWKNIPCSWVGRIINVKM AIIPLKVIKGTTLKFIWNKKSRIAK SILSQKN/KAGGITLLTQLYYKA TVTKTAWY WYQNRDIDQWNR
9129	39497	A	9188	1	2667	
9130	39498	A	9189	1	3033	MADMLTWESCLEESLQEE SPL VTHCGPSCCISGQSPSSARPS VSSAISVLMPLPQNRKLPPAWTS PGIFPTDLV VYSMSLPHALARY NCDVCKSMLPPRL YAPEEKAR TSPLCGTWYSPSLPLCGAWCKK NEKKRERERERKRQREDILSGA SSYKDTIH IQLRPPPYDVLQIQ TTIREYFKHL YANKLENLEEMD KLLDTYTL PRLNQEEVESLNRLI TGSEIVAIINSLPTKKSPRPGFT AEFYQRYKEE

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9131	39499	A	9190	1	950	MQAICTGQARALICMGGNFAL AMPDREASAVPLTQLDLAVHV ATKLNRSLLTARHSYILPVLG RSEIDMQKNGAQAATVEDSMS MIHASRGVLKPAGVMLKSECA VVAGIAQAALPQSVVAWEYLV EDYDRIRNDIEAVLPEFADYNQ RIRHPGGFHLINAAAERRWMT SEIQTITREYVKHLYTNKLAENL EEMDKFLDTYSLPRLNQEEVES LIRPITGSEIEAVVNSPPTKNSPG PDRFTAKFYQRY/K/EELVPFFL KLFLAAVPAPSSHGPFCCSRKA LRGSKTGSAYPSSSALRRVTVS EVVCLFAEAQLF
9132	39500	A	9191	1	3470	MASVSSATFSGHGARSLLQFLR LVGQLKRVPRTGWVYRNVQRP ESVSDHMYRMAVMAMVIKDD RLNKDRCVRLALVHDMAECIV GDIAPADNIPKEEKHREEGNK CHKQKAMGKHLKEPHVLGGQET KGLESTDVLLPLAAGQDLGRE KKIREEAMKQITQLLPEDLRKE LYELWEDLEFESPCLDSLCLCC SLKPQSESSPVLPEGCETLIQRL CAVGTGVTAAALATRLCRASGL PAPHQWASELQRSRKKE
9133	39501	A	9192	1	3907	MAAWNLLKSYAYWGGLRKE DFHCLDRKTLRTVSFLAALLSY ESIGGKGKLTTRKDIYTENPSV HHHHQRPKVDKTTKMGKKQN RKTGNSKMQSAPPPKERSSSP ATEQSWMENDFEELREEGFRRS NYSELREDIQTKGKEVENFEKN LEECITRITNTEKCLKELMELKT KARELREECRLSRCDQLEER VSAMEDEMNMKREGKFRDK RIKRNEQSLQEIWDYVKRPNLR LIGVPESDVENGTKLENT
9134	39502	A	9193	3	3197	

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9135	39503	A	9194	I	3158	MVKGSIQQEELTILNIYAPNTG APRFIKQLLSDLQRDLDSHTLIM GDFNTPLSTLDRSTRQKVNKD QELNSALHQADLIDYRTLHPK STEYTLFSAPHHTYSKIDHILGS KALLSKCKRTEIITNYLSDHSAI KLELRINKLTQSRSTTWKLNLL LLNDYWRKQERSKTDLTLSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRPLARLIKKEKNQID TIKNDKGD
9136	39504	A	9195	I	3285	
9137	39505	B	9196	I	1366	
9138	39506	A	9197	735	3541	RSFPRSRSPPFLLLSRYLRIHMV FSVLPFGLQNPYLLSGSLQEK FRTPGINSHKTLDPNRVIVKVR RLEKEKALRAYVGKSEVRNMH LRERCKL*KKREKNQIDTIKND KGDITDATEIQTITREYVKHLY ANKLENLEEMDKFLDTYILPRL NQEEVESLNRPTGSEIAIINSL PTKRSPGPDGFTAIFYQTYKEE LVFPFLKLFQSTEKEGILPNSFY EASILIPKGRDITTKENFRPIS
9139	39507	A	9198	I	5356	MGKKQNRKTGNSKMQSASPPP KERSSPATDQSWMENDFDEL REEGFRRSNYSELREDIQTGK EVENFEKNLEECITRITNEKCL KELMELKTKARELREECRSLRS RCDQLEERVSAEMEDEMNMK QEGKIKRDKEGHYIMVKGSIQQ EELTILNIYAPNTGAPRFIKQVL SDLQRDLDSHTLIMGDFNTSL TLDRSMRQKVNKDTQELNSSL HQADLIDYRTLHPKSEIYTFFS APHHTYSKIDHIVGS

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9140	39508	A	9199	I	2491	MGDFNTPLSTLDRSTRQEVNK DTQELNSALHQVDLIDIRTLH PKSTEYTFSSAPHYTYSKIDHIV GSKALLSKCKRTEITNCLSDHS AIKLELRICKLTQNHSTTWKLN NLLNDYWVNNEVKAIEKMFF ETNENKDTTYQNLWDTFKAIN KIDRPLARLIKKKREKNQIDA NDKWDITTDPEIQTITREYYK HLYANKLENLEEMDKFLDITYT LPRLNQEEVESLNRPIGTSEIEAI TNSLTITKKSPPGPDGFTAKFYQR YKEELVPFLKLFQLEKEGILP NSFYEASIIIPKPGRDITTKQKK NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFIPWQMG LFNICKSINVIHHINRTKDKNYM IIS/I*DAEKAFDKIQPFMLKTL NKLIGDGTYLKIIAIYDKPTAD IILNGQKLEAFSLKTGTROGCPL SPLLFNIVLEVLARAVRQEKEIK GIRLGKEEVKLSLADDMIVYL ENPIVSAPNLLKLISNFSKVS KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD MKDLFKENYKPLLNEIKEDTNK WKNIPCSWVGRINIMKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRARIASLSQKNK AGGITLPDFKLYKATVTKTA WYWYQNRDIDQWNRTEPSEIT PHIINYLIIDKPEKMSIIDTGGW
9141	39509	A	9200	I	3083	MGKKQNRKTGNSKTQSASPPP KERSSPATEQSWMENDFDEL EEGFRRSNYSSELWEDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELREECRLRSR CDQLEERVSAEMEDEMNMKRE GKFRKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGKLE NTLQDIQENFPNLARQANVQI QEIQRTPQRYSSRRATPRHIIVR FTKVEKMEKMLRAAREKEIQ TIREYYKHLYANKL

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9142	39510	A	9201	1	4201	MRKKQSRKTGNSKKQSTSPPPK ERSSPAMEQSWTENDFDELRE EGFRSNYSKLEIEITKGQEV ENLEKNLDKCITRITNIEKCLKE LMELKAKARELHEECRSLRSRC DQLEERVSVMEDEMNMEMKQE GKFREKRIRNEQSLQEIWDYV KRPNLPPIDVPESDRENGTKLE NTLQDVIQENFPNLARQANIQI QEIQRMPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKAFKQ ASRREDDIAKVTSG
9143	39511	A	9202	715	6193	GQHHIPDTKAWQRJHKKKENF RPISLMNIDAKILNKMLANQIQ QHKKLIYHDQVGFIPGMQGW NICKSINVIIHINRTKDKNHMII SIDAAKAFDKIQPFMLKTLNK LGIDGTYLKIRAIYDKPTASIL NGQKLEAFTLKTGTGQCPLSP LLFNIVLEVLARAIQKEIKGI QLGKEEVKLSLFADDMIVYLEN PIISAQNLKLGINFSKVSGYTIN VQKSQAFLYTNNRQTSEQIMSE LPFTIASKR
9144	39512	A	9203	1	3682	KEGHYIMVKGSIQEEILTILNIY APNTGAPRFKQVLSDLQRDL SHTLIMGDFNTPLSTLDRSTRQ KVNKDTQELNSALHQADLIDIY RTLHPKSTEYTFPSAPHTYSK IDHILGSKALLSKCKRTEITNCL SDHSAIKLELRIRKLTQNRSAT WKVNNLPPGMTYVWVHNGNE GQKLKMFETQWE/HKDTAYQ NLWDTFKAGCRGKFIALNAHK RKAGDKPKLTPLTSQKK/LEK QEQTNSKAS
9145	39513	A	9204	1187	1680	DSPCTIASTRSYFCINRPLSVDI QLRCSCRNVRLSTYC/LYLRLQ LRIEGGNFVFTTKADNGPQQIIT *TNSFPVGNNATVKVRHHILT FFINLFGEIGGPDHFNNGFTQP LPSSGTQPQHLSCVTIDGGNVT MRIHRNQPFINRTKQRLLTIDH ACDLLWLH
9146	39514	A	9205	3	293	ERSWSQLLFSTEQFWQQLPGTG SGRARQNISRKTPREHAGGYRR DNGNNWAVPHIQCNLVPR**K RPPVRAHRAPETLCASKALQE RYWVFELLR
9147	39515	A	9206	1	4509	
9148	39516	A	9207	1	507	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9149	39517	B	9208	1	3448	
9150	39518	A	9209	1	2652	
9151	39519	A	9210	75	784	
9152	39520	B	9211	1	1968	
9153	39521	A	9212	1	298	LQGHVLVDYVLSCLPFGIMGH GNWPLVWLTAACLVLLC*/WSL RRQ*1QQ*APSDQKRDFLVPHG A/VFDR*ISATCWSSINWPANCS RPSIAGWPKQAS
9154	39522	B	9213	167	362	
9155	39523	A	9214	959	1267	YHWHQLLSMVRQLMVLSSWKK ISSWFMGPPIIRKSILAENSI*KN LV*VILKLTGISTLK*MAPQN TQY*MTVIKLFKWWARQTRLR SIMVCYSSTTTLLT
9156	39524	A	9215	370	555	
9157	39525	A	9216	1	1016	MSHQLTFADSEFSSKRRQTRKE IFLSRMEQILPWQNMVEVIEFPY PKAGNGRRPYPLETMLRIHCM QHWYNLSDGAMEDALYEIASM RIFARLSLDSALPDRTTIMNFR HLLEQHQALARQLFKTINRWLA AGVMMTQGLVDAITIEAPST KNKEQQORDPEMHQTKKGQNW HFGMKAHIGVDAKSLTHSLV TTAANEHDLNQLVQNELETAE RFRRQEDTQSKCLLSSIMLYIKN LSGPDVSELISPLSEGNLCSV VVAVIAA VLRRAPIHMPSGWW RSWNAESGAYNVTRSGDSYI/H G*LLYRSRKLDPDADEGALQK WWSVLPPFKRRLWF
9158	39526	A	9217	408	643	PGCGSGHSWHRHQCGPSCQSA TDCLSWSDASPDRAALCSWS SWVPQ*WHR/HKVP*VIMTP ASASQRLMVLNNWRAS
9159	39527	A	9218	626	760	
9160	39528	A	9219	1	2469	
9161	39529	A	9220	1	756	
9162	39530	A	9221	1738	1913	PTAWSPPRPTSMTSISWVICFME RSNLSPMPATKERHSARSWPR WMWTG*SPSVPAR
9163	39531	A	9222	2403	2760	FRGDGILVSCPLVFSSAFSWRA ADGGKNRNVHPSV/VR*AGAL RPRTQSRQ/SQRLNKVEKGGV KQFEHNQSCRQQVGVITIKVVK QLADILPHGHFQFYAEVIGKLF RQRSARDAIRGSS
9164	39532	B	9223	1	3663	

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9165	39533	A	9224	1	1584	MELIEKHVSFGGWQNMRYRHS QSLKCEMNVGVYLPKAAANEK LPVLYWLSGLTCNEQNFITKSG MQRYAAEHNHIVVAPDTSRGS HVADADRYDLGGQAGFYLN TQAPWNEHYKMYDYIRNELPD LVMHHPATAKKSISGHSMMGG LGALVLA LRNPDEYVSVSAFSP IVSPSQVPWGGQFAAAYLAEN KDAWLDYDPVSLISQGGQVAEI MVDQGLSDDFYAEQLRTPNLE KICQEMNIKTIRYQRGAI CSAD AATRGAKRESCRS CGGLLIAER PAKVEPGTASRQDN TA INIEM KASIRARVEHPFRIIKRQGFVK ARYKGLLKN/ETNWRCSRW/P HLFRADQMIRNPHDLYAPEVV HQA KAVTTSGYRFLPCCGFAN TFWGKTTADGTLIEHFGRRCCQ WFEDDDGHREQCDFRFRFKNC PQCN AENDIAARRCRECDTVLV DPDMDLKAALRLKDALVLRCS GMSLQHGHEKGEWLKITYYD EDGADVSEFRQLTPAQR TAFE QLFIRPHTRTPGI
9166	39534	C	9225	1	2127	
9167	39535	B	9226	1	1917	
9168	39536	A	9227	1671	2198	RAGAWASDPQRQGVVRNAALL PPDDRS DGRDAKTQSHRDG/VI SY/RAFDETLASGIVPRTPPIDGI DHPKNEADDMLRMGFIEDVETI /IGADPGRSSDRSVLCNHAGSDS SHYPL YERAAGSAHSVQRDYP SGHQPELLDCLGYARTRSTDTG TPERWSSGHPDCDRRCSPWPGR
9169	39537	A	9228	642	746	
9170	39538	A	9229	1	2031	
9171	39539	A	9230	909	1058	
9172	39540	A	9231	2	268	WRCLLRQLKFIKTVTSWICTG KLMLSTTSP LMMQMMVILLMP VLASKVKPKSTIN*LVSVSGNM NSKATALNLKVPPKIKPVLPSL
9173	39541	A	9232	63	463	FPATCWSSINWPANC SRPSIAG WPK/PGVMMTQGT LVDA THIEA PSSTKNKEQQRDP EMHQTKKG NQWHFGMAHIGVDAKS/A*P TAWSPRPRTSMTSISWVICCME RSNLSQMPMPATKGRHSARSWP RWMWTG

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9174	39542	A	9233	74	247	RNVMIKRRVLSSTSAS*LPPASA FCRLFTSPARWRSTACFTSGNR YRFLTVRLSGYW
9175	39543	A	9234	3	271	ASYWNRSFSPWGTYNRHPR*N RQCASRHCRGLHKQYQWPRJR S/WLNCTPAPHARDVLLWRPSS LPAGNADGPIRWRPCCVFTACS IGTT
9176	39544	A	9235	1	1048	MCSFRSQTCSSSRFTFARVSVI HSANHRVNLNDRSTIMRTRGQD PTLPEMRRVRLLEMAADMDMF CQGLRYGPLPAPVRQQAIIIPC HRVVRGDGTLGSGYRWGVSRA QLVRRREAENEERPINRGWPKQP SDDPKHFVMPTHIEAPSSTKNKE QQRDPPEMHQTKKGNQWHFGM KAHIGVDAKSLTHSLVTAA NEHDLNQLGNLLHGEKQFVSA DAGYQGAPQREELAEVDVDW LIAERP GKVKTLKQNP RKNTA INIEYMKASIRARVEHPFRIKR QFGFVKARYKGLLKN/ETNWR CYSWPWTCFGWTK*YPSIPTCLL TTRTASLLKPPGVRTSVCWQQL

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9177	39545	A	9236	I	2493	MTQIFTGLVEADPFHAVTLVA NHDQPLQALEAPVEPWFKPL AYALILLRENGVPSVFYPDLYG AHYEDVGGAGQTYPIDMPIIEQ LDELILARQRFAGHVQTLFFDH PNCIAFSRSGTDEFFPGCVVMS NGDDGEKTIHLGENYGNKTWR DFLGNRQERVVTDENGEATFFC NGGSVSVWVIEAANNRQYDY GAGHKIPVINYTDVHLRIERSCR FRADPRQQHELQLSSKLAVHD VLTNIYNRRYFFNSVESLLSRPV VKDFCVMLVDINQFKRINAQW GHRVGDKVLVSIVDIQQSIRPD DILARLEGEVFGLLFTELNSAQ AKIIAERMRKNVELLTGFSNRY DVPEQMTISIGTVFSTGDTNRIS LVMTEADKALREAKSEGGNKH WYNLSDGAMEDALYEIASMRL FARLSLDSALPDRTTIMNFRHL LEQHQLARQLFKTINRWLEA GVMMTQGTLDVATIEAPSSTK NKEQQRDPPEMHQTKKGNQWH FGMKAHIGVDAKSGLTHSLVT TAANEHDLNQLGNLLHGEEQF VSADAGYQGAPQREELAEVDV DWLIAERPQKVRTLKQHPKRN KTAINIYMKASIRARVEHPFRII KRQFGFVKARYKGLLKN.ETN WRCYSRWP/HLFRADQMILCPV FVHHIPRFFGTFFGATDQTFTL TESVIHQPLVLTNFIADIGNDFA
9178	39546	B	9237	I	3148	
9179	39547	B	9238	I	1680	
9180	39548	A	9239	191	470	

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9181	39549	A	9240	1	1675	MFARVSTTPVTRYEMYRKTRS TRLEDNNALSQSCKLPFSEVT GSKGKADKEKVG DY VFCLKAQ GRYNGEPLTGTGKIGGMLALR GEGTPEFPVQADFRSGNTRVAFD GVVNDPMKMGGVDLRLKFSG DSLGDLYELTGVLDPDTPPFET DGRLVAKIDTEKSSVFDYRGFN GRIGDSIHGSLVYTTGKPRPK LEGDVESRQLRLADLGPLIGVD SGKGAEKSKRSEQKKGESVQ PAGKVLPYDRFETDKWDVMD ADVRFKGRRIEHGSSLPISDLST HIILKNADLRLQLKFGMAGGS IAANIHLLEGDKKPMQGRADIQA RRLKLELMPDVLMQKTLGE MNGDAELRSGNSVAALLGNS NGNLKLLMNDGLVSRNLMEIV GLNVGNYIVGAIFGDDEVRYN CAAANLNIANGVARPQIFAFDT ENALINVTGTASFASEQLDLTID PESKGIRIITLRSPLYVRGTFKNP QSG*WS/GTLLSTKAKTIVAI TTLKVTVMASVSLPMNTKDS VSVQLMRNLIVPTLKLMMQGGKF LKYLLPVKMQKFGPQV
9182	39550	A	9241	72	506	GHVAHLQPRAGGRQPARLHHP QGTDRVLHGQRGQGP/LLPS LSAWRPSTSLKPA SCGLRGPT SKRMSMQDGGPLPHHRAGAQP PVHPGQEA VG* C/EYWSASSRP VTQPGALMWRLWSAGRPRPY LLSHSQHDPHSGQGGGEHP
9183	39551	A	9242	1	447	
9184	39552	A	9243	70	490	CGCDAETILRINALAFIWKCGT EWICCFCLALRELQQA VHAG LPQQA KILFDGSGSEIGKIH*LRC AHCPLSSGKPVVPAALMNRPT RGERRFAYWAPGWFFSPVRR ATADCPSPGPERVAASGRPRWF APAGENPV

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9185	39553	A	9244	1097	1841	ANDGDLRSCVTLSCHMASHASE AADPPATTAFTDEHMSVKLRR TVGVACSVCPGWVTSCHPVNP AAS/GAKVLPGDTDIALPGPLPF ILSR\QLRDNTLILSDNGG\RLY FELLFPGEDGYRRCESLWLVRG GVAKL DQGHRLAALWQALSEE LRLTPHRYLATNSPQGPWWLL GWCERVPEADEVLPAPLPPYRV LTGLVDRIWRSEDVSAASGLHH DNRNAPSLSDQTRTDPPIRAH SRYQRQKPDG
9186	39554	A	9245	456	928	EAATEPKHLHLQRHAALAQHR QAPRPQGRPLARPHQGDQPD RLHHLRGGGRHGARGHLHQA GAGESAPAPKG/VTCPASPLGD VTGKPTSAWNTEKGRWAQHR GYSPGPAAPLVLRSWPIPLFRP PPLLPLSSPAWILPSPLCHSLKA QSLVQATI
9187	39555	A	9246	1	1572	

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9188	39556	A	9247	1	2505	MAWRNSVNWQCKQEPGLHR RHGRRKLTNGTTRRSQNKKE DFYTSQPGFPALALGCCLRVNL LLGHRGISAGSSYRPITSTPCHL CKLGQEVFAKPLNLQDQCQON LVMQVLKLVNCLNDFFIGSSA DESADDLCTVQIPTTWRTMGL VGCDGVCCRTWCQCLATAV VSGVGGGPWLLPACSSGSPMIS KRKKFVHKWAKDLVEPRHGLE NVWDLPRAMAGSYLMYKQQRK WKIMEFGKWALQHKTMTVKDIE RLQLYNKVKEQPVQVEGSGRA STIFVVLKTFKGGKSPCGAPGE CVAWTQCRILGWVQIHFKEHP ADRVVGLIKMPGLDFYFAADV CYAEKVAQEKGLYRLTSRYR HYAAFERATFEQGSTKLMMML TDKQIADFQKHYTEPERFQILP PGIYPDRKYSEQIPNSREIYRQK NGIKEQQNLLQVGSDFGRKG VDRSIEALASLESRLHNTLLFV VGQDKPRKFEALAEKLGSRAS MEFKRYEYNAAGDLTAVITPD GNRSETQYDAWGKAVSTTQG GLTRSMEYDAAGRVISLTNENG SHSVFSYDALDRLEDEGLVIL WYYDESDRITHRTVNGEPAEQ CQYDGHGWLTDSHLSSEGHV AVHDGYDDKGRLTGECQTVEN PETGELLWQHETKHAYNEQGL ANRVTPDSLPPVEWLTYGSGYL
9189	39557	A	9248	481	857	PLAYLYRDPHVRCVTASGPAP VYGFQPGFSAPTGI/IRKSVHGD HSYCKYAHSCSRQYRAPEPRLS RTSQCLFSHRSARCPDLLMGR RYRRPECLRLSPLLPAAPVPGLP WTIYPRRLYRNSPR
9190	39558	A	9249	777	1229	GAGYSSARCGKHHARTGGAGR NILWRQLRRRGCRSTVDRSHH NQPGTWHRHQPGRGPAKPAR PWRAGTHLPTGTASVRHPCLG QPLRAEPRPAVDPAPRNQNLFP PAPQTDSALPGAVRG*RAR*YH *SRITTTTTPPDEHDSHWARACSP
9191	39559	B	9250	1	2681	

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9192	39560	A	9251	933	1828	VSRHVLVWQPRMPAPPAVDW LTY/GSGIL/SGNKLVGTPLEVEY TRDSLH/RETLRSFASMAGSNA AY/*LTSTDTAPAGQLQSQH/LNS LVYDRDYGWSDNNGD/LVRISGP RQTREYGYSATGRLESVRTLA PDLDI/RIPYATDPAGNRLPDPE/ LHPDMRADGGATGQKVEPEYT PARKAHLHYHWTGDCRWRLSA KTAIRVERGI**MGQPAY*GEPH HVYQPR*TWHRWRQKGRKS ASGRRYLRPINPNVNGRENQRP TSPDGTHTMAPISLMAWQPIQLR YRGHVRQRLSAVGERIYRYLPP
9193	39561	A	9252	I	1409	MECDASALLRYDSRQFIPLAID GLAKDVLGRRFALEGHPRLEAI ARAGDVVRFPADSELDPDPYDG LIPGQESLKVHACVGLPLFAGQ NLIGALTLDGMQPDQFDVFSDE ELRLIAA/LAAGALSNAIIIEQL ESQNMLPGDATPFPAVKQTQM IGLSFGMTQLKKEIEIVAASDLN VLISGETGTGKELVAKAIEHASP RAVNPLVYLNCAALPESVRKSE LFGHVKGAFGTAINRSRGKFEM ADNGTLFLDEIGELSLVLQAKL LRVGQYGDQIRVGDDRCLRVD VRVLAATNRDLREEVLAQRFR ADLFHRLSVFPLSVPLRERGD DVILLAGYFCEQCRLRQGLSRV VLSAGARNLLQHYSFPGNVREL EHAIHRAVVLARATRSRGDEVIL EAQHFAFPEVTLPTPEVAAPV VKQSLREAT*AFQRETIRQALA QNRKRWACARMLETSVANV HRLGKRLVLKK
9194	39562	A	9253	389	799	PQFLIPSVTPCMFIHPLDAK/AR DLRRGDKVKVVSRRGEVISIVE TRGRNRPQGLVYMPFFDAAQ LVNKLTLDATDPLSKETDFKKC AVKLEKACPYDTLKLATLASG LSAGTFYFVARDIPCMECDIPC AKVCPS

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9195	39563	A	9254	588	1500	RHPPIPAKIGLHAVAQDRAWNN MQAGPNINEERMPGWRDPRNF IIVSDPYPTVSALAADL/TPEVSK FPGSELAEDQLNDESRELGFYL QKGLFEEYAWFGRGHGHDLP FDDYHKARGLRWPVNVNGKET QWRYSEGNDPYVKAGEGYKF YGKPDGKAVIFALPFEPAAEAP DEEYDLWLSTGRVLEHWHGTGS MTLRVP*LHRAFPDAGLFIYPL DAKARDLRRGDKVVKVVSRRGE VISIVETRGRNRPPQGLVYMPFF DAAQLVNKLTLDATDPLSKET DWPHFSSTYNGPLQGANGLIL VQQH
9196	39564	A	9255	1	1698	MEREQDSIIIMDAATTRNLEITQ NLGGAENTLASVLDCTVTPM GSRMLKRWLHMPVRDTRVLLE RQQTIGALQDFTAGLQPLVRQV GDLERILARLARTRARPDLAR MRHAFQQLPELRAQLETVDISA PVQALREKMGFAELRDLLE AIIDTPPVLWSWMSGARWLTA IICNYEVDRITRHTKMNVGDVQ RLSVAVVVNYKTLDPGKPLPLS NEQMKQIEDLTREAMGFSEKR GDSLNVVNSPFSNDSDESG
9197	39565	A	9256	590	910	SCSIQLSPWILPRTVMCPVGFTC ELLST*WLAKEPKTVSWITIRS FTAETSTFGPTMTASMTFLPTY CSIIASLLSSFKLAAAILNSLPQI GRYITIGSGVRRNA
9198	39566	A	9257	1	854	MANRMLNETAWFGRGAVGA LTDEVKRRGYQKALIVTDKTL VQCGVVAKVTDKMDAAGLAF AIYDGVVANQHLYCRQDSSDEF AEMSLIEGRRGLRRRPLWEFEI DTARQQLNLQFGRDLVGFV ENAPRGLCAAGCLLQYAKDTQ RTTLPHRSITMEREQDSIIIMDA ATTRNLEITQNLGGAENTLAS VLDCTVTPMGSRMLKRWLHM PVRD/DPRVA*APANYWRIAGF HRRATAGTASGRRPGTYSGTSG FTNCSPTRSGPYAPRPATAGA ACAVRNCR
9199	39567	B	9258	122	868	

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9200	39568	A	9259	2610	2897	PNLYLRFFFFFLRQESHVSTQA GVQWCNLSLQPLPPGFKQFSH LTGLPKCWDYRSKRPRPANQT SILDVKEDPY*LHWPRSNRDIK LNLVANP
9201	39569	A	9260	2166	2426	VQPGGCGL*RQHGSYRPESRTA GGRHRG*RRLRRAPIDGGANSS GTGICRDAFNRIHWTGRTGRP DVDSGEHRKTAEQRRDGA VR
9202	39570	A	9261	846	1022	
9203	39571	A	9262	1	1339	MNALSKARQYVEEFDGNIASFI FSGKPGTGNHILAAICNELL RERNLGESEIHTTSDHMTATL PGETQTWPEDFRDVEQRQVV FQHLVGCVKVDGKYIQVCTFT VGGNYGGTCLRGDES LVIKKES DIEPLIVTVVQQFHIGNGYVVI TITPSEGERYQGVVGLGRI RRT RRIRHKQSARCYNLRFKPTCAIT QTTPTEVSPVLKKQLVLPNPH YPGNKPNFKRVSVKIIGESASRR LQLSRGDDIADALSDRFVSEAI TAKVEAAIKN*LSQYGILPEEW GGESQFVHVS AKAGTGIDELLA DAILLQAEVLELKAVRKGMS GAVIEFPPLDKGRGP/VVTVLV REGTLHKGDIVLCGFYGRVRA MRNELQGEVLEAGPSIPVEILGL SGVPAAGDEVTVVRDEKKARE VALYRQGGKFREVKLARQQKSK LENMFANMTEGEVHEVNIVLK ADVQGSVEAISDLLKLSTDEV KVKIIGSGVGGITETDATALAAS NAILEGLFTLTSQDEFVIAPGFS TDPLEEQHSVVSGLLHKYIHN ALLLVKGGCAVNCRYCFRRHF PYAENQGNKRNVQTAL EYVA AHPELD EMI FSGGDPLMAKDH ELDWLLTQVVHQHDVGRRVQ RLPFIHDALFHQQFFNQHTTF GQVHLARFFVHREVDSILFRIS VLKMMMSPHRVKDRCYCAQFI

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9204	39572	A	9263	922	2357	GKGNDEKKI.VSDQ*MGTA*RQ RIHPISIIPL.LW/YPEGPSVSRPE AGGYNSLL.MVTHGK.VINGRRG ILIESD.EPGDAR*SSGSCARHGL VFWLCSRRCMPQTIEAIQHNP A/VAVNKIDRPEADPDRVKYVL SQYGIL.PEEWWGESQFVHGS AGTGIDELLDAIL.LQAEVLELK AVRKGMA SGVIESFLDKGRG PVATVLVREGTLHKGDIVLCGF EYGRVRAMRNELGQEVLEAGP SIPVEILGLSGVPAAGDEVTVVR DEKKAREVALYRQGGKFREVKL ARQKSKLENMFANMTTEGEVH EVNIVLKADVQGSVEAISDSL KLSTDEVKVKIIGSGVGVIEAES LDLRYYSVIYNLIDEVKAAMSG MLSPCLKQIIGLAEVRDVFKSP KFGAIAAGCMVTEGVVKRHNPIR VLRDNVVIYEGELESRRFKDD VNEVRNGMECGIGVKNYNDVR TGDVIEVFEIHEIQRITA
9205	39573	A	9264	1	748	
9206	39574	A	9265	923	1387	PPNLARCSPSAMARQSPISPRR PLAPSPALRAPSPAPPHAARLA VPRQA*GLLLLLALIAVSTHIEMI SNTLAMGWNSPLTTVLALLAC GFACFIEMGKIPFDVAASWIIMI WSQSSTCTAPLKLRSVTLMR LTPVSARDLVGYFATAVRLP
9207	39575	A	9266	352	478	CDPTQRKPLYWLQALRRGLPI WRNQRFRKAVR*MAMAPMFS
9208	39576	A	9267	54	811	HTTGGNPLYGI/SRQIAR*QSRV/ GPGFCQDYRDIHKLFKRQEVAP TSSGLMFRMLMPWVLISSMLVLA MALPLFITVSPFAGGGDLITLIY LLALFRFFALSGL.DTGSPFAGV GASRELT.LGILVEPMLILSLVL ALIAGSTHIEMISNTLAMGWNS PLTTVLALLACGFACFIEMGKIP FDVAEAEQELQEGPLTEYSGAG LALAKWGLGLKQVVMASLFV DI.FLPFGRAQELSUAACLLTSLV VTLLKRLL

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9209	39577	A	9268	2	627	CGSIIALVAIFKSFSGHYLGTLE GLNGLVLKFGYKGDKTQVSLG KLNTISMIFIMGSTWVYAYANP NILDLEAMGAPIASLLCLLPM YAIRKAPSLAKYRGRLDNVPH AITRVDLKEDGKGLKIVRQSLP YGTASGTHGLYFCAYCARLHNI EQQLSMFGDTDAIKAYQSFLA RSAFAVSQCIPVNTVYRAYSVI QNWIATIRHV
9210	39578	A	9269	2648	3072	LSRTGKTTFAT/LEYAASIIAL VAIFKSFSGHYLGTLEGLNGLV LKFGYKGDKTQVSLGKLNTIS MIFIMGSTWVYAYANPNILDLI EAMGAPIASLLCLLPMYAIRK APSLAKYRGRLDNVFTVIGLL TILNIVYKLF
9211	39579	A	9270	467	614	VPLAVPYGRLWRTIFSPSSFR STRE*YESMLGRFFERTACLQQ KQF
9212	39580	A	9271	1	846	MSYLVVWPFIASLVLSLIPYW NSAVIDQVDLGSALATGHDGILI TVWGGIMSTKVFPLNFPNVFSF GIVSKIRKK*KKDFGRDFTERKC SQIISRASMLMVAVVMFFAFSC LFTLSPANMAEAKAQNPVLSH LANHFASMTGKTTFSITLEYA ASIIALVAIFKSFSGHYLGTLE LNGVLKFGYKGDKTQVSLGK LNTISMIFIMGSTWVYAYANPN ILDLEAMGAPIASLLCLLPMY AIRKAPSLAKYRGRLDNVFTV IGLLTILNIVYQLF
9213	39581	A	9272	95	456	RAISMSFRMERPCCLSLPSSLCIS STRVTASSPLSGCSSCTLLWISW GRMVRNCNT/MQI.QDLLRA HLRPPKPPMAKLLLEPAEGFPGTS CLLEAEPSTIRDVVLIASQPASQ PASQQGSQI
9214	39582	A	9273	1	1241	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9215	39583	A	9274	3	1608	SRGFPRRREFSGPSIKKKVDAPTQ AQWVPVHAVITNSTYDGLLYNT DWIKQTLDPVSIHLDSAWVPYT HFHPIYQKGKSGMSGERGAGKVI FEPQ*AHRLMLAALSQGSLLIKG EYDQEAFFSEAFMRHSPSSPSYPI GGSVETAAAMLRGNPGKRLIN RSVERALHFRKEVQRLREESDG WFFDIWQPPQVDEAECWPVAP GEQWHGFNDADADHMFDPV KVTLTPGMDEQGNMSEEGIPA ALVAKFLDERGIVVEKTGPYNL LFLFSIGIDKTKAMGLRLGLETF KRSYDLNLRKNMPLDLYAEDP DFYRNMRIQDLAQGIHSRRVTA SVSSGSQANQQVNFIGDQSTAA LTLSPVSGDITVTNTAPQYMTA TLQDKNGNPLKDKETFSVPND VASKFSISNGGKGMTDSNGVAI ASLTGTLAGTHMIMARLANSN VSDAQPMTFVADKDRVVVLQ TSKAEIINGVDETTLTATVKD PSNHPVAGITVNTMPQEGVYA MSLEYIILTFIALNGSRMWINS REKRTQRND
9216	39584	A	9275	106	709	LRSADNDTREKNKQTNRSDS KLRLVETSGSPPTSSSQTPDPAF RYPKKYCVEDCS\YRPE*PRITP DNRLLYGGGVVYGARDPDVVE RLVVPKLLKTFPQLKGVKIDYR WTGNFLLTLRMPQYGRDNTNI YYMQQYSGHGVTCNHLAAGRLI AELLRGDAERFDFANLPHYFP PGGRTLRLVPFTTKSAAYYSLR DRLGV
9217	39585	A	9276	140	558	RKPIHRQGEKAGRNRSVDGCC EKAMSVIIVGGMGAGATLALAI SRLSHGALPVHLIEATAPESHA HPGFDGRAIALAAGTCQQLARI GVWQSLADCATAITTVHVS DR GHAGFGTLSRKITTWGL*QRSW ARWIWYPFAKNYHLGALTTVV ELQMGGKRLF
9218	39586	A	9277	3799	4086	
9219	39587	A	9278	3017	3184	
9220	39588	B	9279	1	1050	
9221	39589	B	9280	1	1455	
9222	39590	A	9281	374	506	RCIALIAWLTLPVLRVTLK*RW RVARR*RAACW*S*WHHSALA P
9223	39591	C	9282	47	406	

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9224	39592	A	9283	1	4749	
9225	39593	B	9284	507	3568	
9226	39594	A	9285	101	638	RQKYSWSSALVPTAGEPTRH TQTRAGIAHA/EADFAADILFL LCGKDISTAGGFSFV*LADNKQ HLMPCVCFANHLTVKM/PHQSPV PDH/QALISHRIRSSRGSCSRYS DNSVSRTPLSPTPGRSTMVICS PICRRKRKGSRVQAATSLTGD SPANRALQRLLFPAPVLPMMPI TGS
9227	39595	A	9286	271	532	
9228	39596	A	9287	643	768	
9229	39597	A	9288	1	1948	MCSHAAGCTIPDVEHWTRINR KVPRLVSVLNPGPDYHPTVRAF LAGGVPEVMLHLRDLGLLHLD AMTVTGQTVGENLEWRPEPGA FRQCLREQDGVEPDDVILPPEK AKAKGLTSTVCFTGNIAPEGS VIKATAIDPSVVGEDGVYHHTG RVRVVFSEAQAIIKAKRVVIVA CGFSPTRTAHAASDIDITNTVDL RNRRLRRLRGEIVQF/IPANKYR TSA*GS*LAHPTGSLCD*VGRL DIPLAANFVQR*SPPGISPTPV
9230	39598	A	9289	2166	2426	VQPGGCGL*RQHGSYRPERSTA GGRHRG*RLRRAFIDGGANSS GTGICRDAFNRIJSHWTGRTGRP DVDSGEHRKTAEQRRDGA VR
9231	39599	A	9290	846	1022	

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9232	39600	A	9291	1	1336	MNALSKARQYVEEFDGNIAEFI FSGKPGTGKNHLAAICNELLL RERNLGESEIHSTSDHMTATL PGETQTWPEDFRDVEQRQQVVI FQHLVGCVKVDGKYIQVCTFT VGGNYGGTCLRGDES LVIKES DIEPLIVVTVVQQFHIGNGYVVI TITPSEGERYQGVVGLGRIRRT RRIRHKQSARCYNLRFKPTCAIT QTTPTPEVSPVLKKQLVLPNPH YPGNKPNFKRVSVKIJGESASRR LQLSRGDIADALSDRFVSEAI TAKVEAAIKN*LSQYGILPEEW GGESQFVHVSAGAGTGIDELLA DAILLQAEVLELKAVRKGMA GAVIESFLDKGRGPVATVLRRE GTLHKGDIVLCGFYGRVVRAM RNELGQEVLEAGPSIPVEILGLS GVPAAGDEVTVVRDEKKAREV ALYRQKGFREVKLARQQSKL ENMFANMTEGEVHEVNIVLKA DVQGSVEAISDSLKLSTDEVK VKIIGSGVGGITETDATALAASN AILEGLFTLTSQDEFVIAPGFST DPLEEQHSVVSGLLHKYHNRA LLL VKGGCAVNCRYCFRRHFP YAENQGNKRNVQTALEYVAA HPELDEMIFSGDPLMAKDHEL DWLLTQVVHQHDVGRRVQRL PFIHDALFHQQFFNQHTTFGQ VHLARFFVHREVDSILFRISVL KKMMSPHRVKDRCYCAQFICP
9233	39601	B	9292	1	2890	
9234	39602	A	9293	1	822	ITQYCDSTFICLSKGLGTPVGS LVGNRDYIKRAIRWRKMTGGG MRQSGILAAAGIYALKNNVAR LQEDHDNAAWMAEQILRETG A\DVMRQDTNML\FVRVGEEN AAALGEIT*KPRNVLI\NASPIV RLERDVPQRILVLGASGYIGQH LVRTLSSQGHQILAAARHVDR LAKLQLANVSHKVDLSWPDN LPALLQDIDTVYFLVHSMGEAA IYRSAGVASVSSVERYCLRPSY DPRVFPCFLCCRALVLPCLLIY SPLSFALVLSLAPIK
9235	39603	A	9294	1565	1825	SRMCVAIRSNRQSRCEITIAQPG NSSRAFSSARRVSISSLVGSSSS SMLPPTCSSFARCRPRSPPESS PTRLP*STPLKLRPT

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9236	39604	A	9295	236	742	VATRCRSRSPSLSPSLSLRVMIPTTSAYSFMITAKSSPAVLKLSNASERVNVSGTISVLRICTPLFSA RLWLASTFRSRLST*PMMWS ISSLQTRNLECGCSATLFFRLCSSWRSN/TNDVFTAVTLITERDGI PAQRFRFQSARVPVYTRPPAH RLPLPRRCHQK
9237	39605	B	9296	1	951	
9238	39606	B	9297	1	666	
9239	39607	A	9298	761	1162	IILGSMIAIFITILPIHEQGMFFHL FVTSFILSSGL*FSLKRSFTSLV SCIPRYFILFVAIVNGSSSLVWLVS FLLFVYRNACDFCTLILYPETL LKLLISLRRFWAETLGFASKYTIM SSANRDNLTSFFPN
9240	39608	A	9299	82	160	
9241	39609	B	9300	64	477	
9242	39610	A	9301	408	507	LLPLFQNLILLVYSGI*LLPGLVW KGCMMHPGIYP
9243	39611	A	9302	1	3141	MLLGLHSLAAFLQRESFSGKQS WGCQLAALLQRRITKMTTEAMK ITLSTQPADARWGEKATYSINN DGITLHLNGADDLGLIQAARK IDGLGIKHVQLSGEGWDADRC WAFWQGYKAPKGRKVVWPD LDDAQRQELDNRLMIIDWVRD TINAPAEELGPSQLAQAVIDLIS NVAGDRVTYRITKGEDLREQG YMGLHTVGRGERSPVLLALD YNPTGDKEAPVYACLLGDIITY RNGKKVEVMNTDAEGRVL
9244	39612	A	9303	1	983	MVRASGYLQTLDDFNHIVLKA SENGVPVYL RDVAKVQIGPEM RRGIAELNGEGEVAGGVILRS GKNAREVIAAVKDKLETLKSSL PEGVEIVTTYDRSQLIDRAIDNL SGKLLIEFIVVAVVCAFLWHV RSALVAIISLPLGLCIAFIVMHFQ GLNANIMSLGGIAIVGAMVD AAIVMIENA/R*TAGRVAAPAS* RHAG**NALAGQEGRLFGPLAL HQNVCDGGCGAAGDRSDPD PD GLLDWPQNSAGKQ*PAQSLFDS CLSSVAESTALAENHAAGG AFGADGSLAAQ*SSPGEFLPQIN EGDLLYMPCDAAQGIQPPRRR
9245	39613	A	9304	362	436	
9246	39614	A	9305	101	208	
9247	39615	C	9306	1	882	
9248	39616	B	9307	1	822	

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9249	39617	A	9308	668	826	VNSHSQLLQRE*NT*ESNLQGM *RTSSRRTTNHCSRK*KRIQTNG RTFHAHG
9250	39618	A	9309	497	1042	LPRIPTVLTSQVRRDQWYRRFG RRPSG*PGNWSSSPVEKSA TRT LRITG TSAIPSEAITGSSAVVRR VPAGKTTAPTEIKSTPVSANSRS VLSVTLPTDSSSALPLVRLTASR ICSVSKLSSMMISAPAFRASSSS SRFSTSTSTGASGCSQDAFSTA WRTEPAIHWFSLRKASESPRR
9251	39619	C	9310	1	3447	
9252	39620	A	9311	570	647	
9253	39621	A	9312	1071	1323	RPPPHRLSGCYHPSHRRPVHGF HHA*RQRQFRR*TVDTLPADAP LPSPHPAHFRPL/TSIFCPVSTMA DNASM*RNSCCRLSARG
9254	39622	B	9313	1	2585	
9255	39623	A	9314	133	357	SSFFQFCEEIHW*LDGDGIESIN YLRQ*GHFHKIDPSYP*AWNVL PFVCVLFHFIEQWFFVLLLEEV LHPCPLY

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9256	39624	A	9315	1	2680	MLVLPFLQPFMRILDHDSSID HRPDGGRNATQRHNIGIQSLEV HDNKSNTQPRQRNRHQRRA HMPEKQRTDYRRDPLESPKAA AACLFPAIADPNTPPVFTPPASL PTTGM/FDSPPFNRDA*MVMRS LIRSMTVARAVIGVAICNKG ATMMALAAQHNIATVLPVGGGA TLPAKDGEVNGKVQTI GARFA NGELSLQDARRAGCKACASSV RRSCQFLGTAGTSQVV AEGGL AIPHSALAPSGEPVWREIARAS ARAALNLSQKGITREILTDKAI ENAMTVHAAFGGSTNPLLHIPA IAHQAGCHIPTVDDWIRINKRV PRLVSVLPNGPVYHPTVNAFM AGGVPEVMLHLRSLGLLHEDV MTVTGSTLKENLDWEHSERR QRFKQLLLDQEQINADDEVIMSP QQAARGLTSTITFPWQYAWIL HPDLDPETLLKLLISLRRFWAET PVGKNRITQMTNARHRTGFGQ VTIHHTGVQFMGFITRKDSANS GVKQWTLFQQTHRFRHHIQR T FARFQHFLPGFNNGRQRLDVAS VFMEFTTGLMSLDTALNEMLS RVTPLTAQETPLPVQCFGRILAS DVVSPLDVPGFEDNSAMDGYAV RLADIASGQPLPVAGKSFAGQP YHGEWPAAGTCIRIMTGA PVPEGCEAVVMQEQT EQMDNGVRFTAEVRSQ NIRRRGEDISAGAVV
9257	39625	B	9316	1	2577	
9258	39626	A	9317	2	772	AFGASLAQDKPNTGTG*KSPSH PLLRLVLDIGKICHLARKVGA VS VVDNPFIRPALQNPLALRAD LV LHSCTKYLNGHSDVVAGV VIA KDPDVVTELA WANNIGVTG GAFDSYLLR GLRTLVPRMELA QRNAQAI VKYLQTPLVKKLY HP SLPENQGHEIAARQKGF GA MLSFELDGDEQTLRR FLGGLSLFTLAESLGGVE KLISHAATMTH AGMAPK ARAAGISETLLRIST GIENGENLIADLENGFPA
9259	39627	B	9318	68	1895	
9260	39628	A	9319	I	636	
9261	39629	A	9320	I	942	

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9262	39630	A	9321	479	969	MPSTSQ*I/ISEDVFELNAARYR DEEIQRTPQRYSSRRPTQRHII RFTKVEIKEKMLRAAREKGGV AHKRRKPIRLTADLSAETLQARR EWGPIFNILKEKNFQPRISYPTK LSFISEGETKSFTDKQMLRDFGT TRPPLKELLKEALNMERNRY QPQQKHTKL
9263	39631	A	9322	1	652	MGKKQSRKTGNSKNQASPPPP KERSSSRAMEQSWTENDFDEL REEGFRRSNYSELKEEVQTHGK EDKNLEKLDDEWLARIINAES LKDLMEKTKARELCDECTSL SRFDQLEDGVSVMEDMNEMK SEGKFRKRIKRNEQSLQEIWD YVKKPNLCLIGVPESDRKNGTK LENTLQDIQENFPNLSGQANI H IQENQRTPQRYSLRRATPRHLI VRFTKVEMKEKMLRAAREKG R/VTHGKGPRLTTADLSAETLQ AR/RTWGPINFILKEKNFQPRI SYPAKLSFISEGEIKYFIDKQML RDFCHHGQPLKELLERKALK HGKGNQ*PPPKERSSSRAMEQ SWTENDFDELREEGFRRSNYSE LKEEVQTHGKEDKNLEKKLDE WLARIINAESLKDLMEKTKA RELCDCTSLSSRFQLEDGVS VMEDEMNEMKSEGKFRKRIK RNEQSLQEIWDYVKKPNLCLIG VPESDRKNGTKLENTLQDIQE NFPNLSGQANIHIQEPENATKIL
9264	39632	A	9323	403	410	VFLIRWGGKPLKRKLYFLHCSI TQALV*ACQGYLG*IVGAKNI KYIDFFITASRYLRMLAQVFE*I LLLREVTRY
9265	39633	A	9324	174	1252	

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9266	39634	A	9326	1	1049	MHRSDMSPDKVDILDTTAFRI AINEVKHSLTSVTVKVLD MF ISRSSLFPIDDLDDGHSDQVG VLNSPTCYSAHQNGERIERFSR KVFGVGLPPDIDEITASFRRF GPLVVDWPHKAESKSYFPPKG YAFLLFQEESVQALIDACIEED GK\LYLCVS*PLLSKDKPSSKYV PWNLSDSDFVMDGSQPLDPRK TIFVGGVPRPLRAVELAMIMDR LYGGVCYAGIDTPELKYPKA PGRVAFSNQQSYIAAISARFVQ LQHGDIKRVVEKPYVLDDQM CDECQGARGCGGKFAPFFCANV TCLQYYCEFCFWANIHSRAGRE VHIPLVTESAAPRIHIPWT
9267	39635	A	9327	2	126	IASNSWNSSSPGEAREDPGE LDKGLDND AEGVWSPDIEQSF QEALAIYPPCGRRKILSDEGKM YGRNELIARYIKLRTGKTRTRK QVSSHQVLARKKVREYQVGIK AMNLDQVSKDKALQSMASMS SAQIVSASVLQNKFSPPSLPQA VFSTSSRFWSSPPLGQQPGPSQ DIKPFAPAYPIQPPPLPPTLSSYE PLAPLPSAAASVPVWQDRITAS SRLRLLEYS AFMEVQRDP*TRT SKHLFVHIRHTDRNPRRFFRTPP LGPVVDVRQIYDPNFPEKKGGL KELYEKGPNAF\FLVKFWADL NSTIQEGGAFYGVSSQYSSAD SMTISVSTKVCSFGKQVVEKVE TEYARLENGRFVYRIHRSPMCE YMINFIHKLKHLPEKYMMSV LENFTILQVVTSRDSQETLLVIA FVFEVSTSEHGAQHVVYKLVK
9268	39636	A	9328	1	1327	
9269	39637	A	9329	2	339	TYGCASPRKPRVMPVLT AQVP ITALRVNSSSIPAQSAVETTSNR PPTTGVPFRPVRAAV*AVISPO ISADPTTGGRA*LISAIPSQSVRH GSYSPRLML*RLDSEILLSQPL TPVKHQRR
9270	39638	A	9330	1505	1876	
9271	39639	A	9331	1	1710	
9272	39640	A	9332	1	1191	

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9273	39641	A	9333	838	1365	STETLSPLPATPGVEVTLRLHLDV VSAEQQMFSGLVEKIQVTGSEG ELGIYPGHAPLLTAIKPGMIRIV KQHGHEEFYLSGGILEVQPGN VTVLADTAIRGQDLDEARAME AKRKAEEHISSSHGDVDYAQAS AELAKAIAQLRVIELTKKAM*H RLEKHKSSQSGNRLAFFCACDPS
9274	39642	A	9334	3	601	MLSAVGYP/TLAEEMGVLOE RIPSTKTGTSITSVQAVVVPADDL TDPSPATTFHAHLDATVVLRSQI ASLGIYPAVDPLDSTSRQLDPL VVGQEHYDTARGGQFILARYQ ELESLLAAILGMNDLSEEDKL VV ARARKIQRFSLSPFFVAEVFTGS PGKYVSLKDTIRGFKGIMEGEY DHLPEQAFYMVGSIEEAVEKA
9275	39643	B	9335	681	1071	
9276	39644	A	9336	203	2189	VASSARRGLPVHGPAPLQGPNG SQDRL/ESGNTNRCGLRGLVKG GKGGFRFPSARLIQTVKKGGTTPS RDHAIIEPSGYVSVAGVGERTR KGSVFAHEMPDCNVIDKVS LV YGMTEPPGNCMRVALSGLTM AEKFRDEGRDVLVFDNIYRYA LAG*ERFATVGR*ASN/AVGIQP TLAEKMGVLQERITSTKTGTSITS VQAVVVPANDLTDPSPATTTFA HLDATVVLRSQIASLGIYPAVD PLDSTSRQLDPLVVGQEHYDTA RGG*SI/LQRFQELKDFMALP/G LSDELSEEDKL VVARARKIQRF LSQPFVVAEVFTGSPGKYVSLK DTIRGFKGIMEGEYDHLPEQAF YMGDMAMTYHLDVVSAAEQQ MFSGLVEKIQVTGSEGELGIYS GHAPLLTAIKPGMIRIVKQHG EEFIYLSGGILEVQPGNVTVLAD TAIRGQDLDEARAMEAKRASG KVKPSIMQSLTPEKIAAILPLQF FPQPADFTGPYVMLTSRRNNRA LSRCDQTLMPGLAIRGIRHRH QQAGVRIILNNAIEHVVDGEK VELTLQSGDITLQADVVIYGIS ADEPLAREANLDTANGIVIDEA CRTCDPAIFAGGDVPITSSLINV VDEIHDILLTQPVATRYCIVKVI FEAVMILRDSGGAPFCSNGMAT

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9277	39645	A	9337	905	2319	SRQAQWKGVPTFSVINYHSLQ KRTTNLTHRQLLNLSTVLYCS CPSIQKLLMLQTGPSPGVGLV DLPLKAMSRPALPNATAALPTG TRTQPPSTPLLTRLPSHRLLLH SGF*AAALLGVSEMTIRRLDNN HSA PVVLLGGYIVLEPRASHY LLSDQKSRLVEEKRAAKLAA TLVEPDQTLFFDCGTTTPWIIIEA IDNEIPPTAVCYSLNTFLALKEK PHCRAFP CGATPFSPNPSIFSKRV NNFCRDIAFYYSAGVHVSKGV TCFNLKRWPVKQWAMSAQK HVLVV D HSKFGEVGPVCMGDL KRFDIVVRECCPEDEYVKYAQT QRIKPKD VSRHPV IIRLREPGL E PVMEFHHPVLPQRITESA VVHI AHTRKSWRPEHSA PVLIQTSPV ERGPQYIQCYQLSLTSEENNQP DTQTTTKPAQYSSILFLSKYPKV IVDAPDRSTQRGWSSGLATQSN EQACTTKCNSCTANWHQNTTT FNSTANPSTFKPPTSAALRVLSL WTGNHCDWCFIRYWRLTPNW QRFRRVGRTERATTHNRLQAF GGHTQGLSPGRRRWLHEQRFP TSDTGHTADDFRKLDPICQGP YGSHRHSVKSEVNFKEKRYAF APAASFRTYTLIRFCAPPNTGRF LLTGTPLMLSYRHSFHAGNHA DVLKHTVQSLIIESLKEKDKPFL YLDTHAGAGRYQLGSEHAERT
9278	39646	A	9338	98	596	YSGIIMAQSKLYPVVMAGGSGS RLWPLSRVLYPKQFLCLKGDLT MLQTTICRLNGVECESPVVICN EQPRFIVAHQMRQLNSENIIL EPAGRTTAPTIAAALANRHS PESAPLMVLATDHVIANEDAV RAPVKINAIPYKKGKLVTFGIG LDGRVPRYNM
9279	39647	A	9339	2	437	LECPGRSTANCSPRARATSLLL LTHVHGESRDRAQEMVDLLAQ YEQHGLQLNSRELPDHLPLYLE YLAQLPQSEAVEGLKDIAPIAL LSARLQQRESRYAVLFDLLKL ANTAIDSKVAEKIA/VR SAR*Y AAGAGCCLGRRAG
9280	39648	A	9340	152	334	HLSPQYGSIPRVISRMGGKLIIM DHFHYGRDSILLSME*TLALDA NLQFLYVVLNPNYYL
9281	39649	B	9341	1	1401	

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9282	39650	A	9342	86	2063	
9283	39651	B	9343	1	885	
9284	39652	A	9344	1	101	MDDNITYITFCINPLNLSPQRR MLIITGPNMGGKSTYMRQTALI ALMAYIGSYVPAQKVEIGPIDRI FTRVGAADDLASGRSTFMVEM TETANILHNATEYSLVLMDEIG RGTSTYDGLSLAWACAENLAN KIKALTLFATHYFELTQLPEKM EGVANVHLDLEHGDTFMFM HSVQDGAASKSYGLAVALAALG VPKEVIKRAQKRLRELESISPNA AATQVDGTQMSLLSVPEETSPA VEALENLDPDSLTPRQALEWIY RLKSLGKTMPS TRYQKINAHH YRHIWVVGDIHGEYQLQSR HQLSFFPKIDLLISVGDNIDRGP ESLDVLRLLNQPWFTSVKGNH EAMALEAFETGDGNMWLASG GDWFFDLNDSEHQE AIDL LLLKF HHLPHIIEITNDNIYAITTCVGN ARRAHAVHFCGDVARLLTTCQI NIYRGQFRRLPRTFHRRLTLKL RDLILRLSAGNLQCCPDRAWRD NIHPNTFLRDLFCQATAVVQNR RLRSRIGDRFLGAVERRFGNDL PSSPVEWLTDNNGSCYRANETRO FARMLGLEPKNTAVRSPESNGI AESFVKTIKRDYISIMPKPDGLT AAKNLAEAFEHYNEWHPHRAN PITYQAVCANHYRTLNGTMT NTG*QYNVYHYIQLPAESVAA APHVDHHRSEHGR
9285	39653	A	9345	1062	1179	PRFVPILAPYAPVRSVCLR*V*T DLPEYGHILFQPADR
9286	39654	B	9346	1	2439	
9287	39655	A	9347	136	629	RSVTPVTDIVKLLFETRLRLPGY TKSIE*TNITFQCAIAAA*KNSVS TPRGGGTGTNGQALNQGIIVD MSRHMNRRIEINPEEGWVRVEA GVIKDQLNQYLKPFGYFFAPEL STS NRATLGGMINTDASGQGS/ LGVRVLLGGDILDTQPLPVEL AETLGKSAE
9288	39656	B	9348	1	4653	
9289	39657	C	9349	584	819	

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9290	39658	A	9350	1	765	MQEWGRTYILSGCCNSALKGD VCLLYGFRVAGRRQASELQELT IGYRAQKNRVSSWCYCHFRQM AKAQHIKGFNLRLRKTAKK*GF QLVLLPFSANGK\AQHIKGFNL RLRKTAKKTRDFLTRMPKLG TMVGVDPALVLCYRDEYKLAL GEERGEFNVLLEANWLASALES QPVATVSGESWYFFGHCTEVT ALPGAPAQWAAIFARFGAKLE NVSVGGCCGMAGTYGHEAKNH ENSLGIYELSWHQAMQRLPRN RCLATGYSCRSQVQRVEGTGV RHPVQALLEIK
9291	39659	A	9351	1	1710	
9292	39660	A	9352	1377	1712	IFRASLNQLFCGLLAGRNHRQ RSVRALSQRKMVPTDRK*RC ARRAAR*PSARVL*SGE*TD RQH AD*PTIR*RRSWYLRPAVYAS V RQSDRLYSDEYHW*PVRLQRY VRR
9293	39661	A	9353	203	1293	VASSARRGLPVHGAPLQGGPN SQDRL/ESGTNRCGLRGPLVK GKGGRRFPSARLIQTVKKGGT PS RDHAIIEPSGYSVSAGVGE RTR EGNDFYHEMTDSNVIDKVS LV YQGMNEPPGNRLRVALTGLT M AEKFRDEGRDVLVFDNIYRY T LAG*ERFATVGR*ASN/AVGY Q PTLAEEMGVLEQERITSTK TGSIT SVQAVYVPADDLTDPSPAT TFA HLDATVVLRSQIASLGIYPA VD PLDSTTRQLDPLVVGQEHY HTA RGG*SLQRQFQELKDFMAL P/G LSDELSEEDKLVARARKIQ RF LSQPFVAEVFTGSPGKYV SLK DTIRGFKGIMEGEYDHLPE QAF YMVGSIEEAWEKAKKL
9294	39662	B	9354	1	505	
9295	39663	A	9355	604	789	TMVASGSRMTST*SRGSVNG CRTILRWKRHSSPLKIKRKQ KS L*TMPSF*RLPAENSLFEI

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9296	39664	A	9356	1	1514	SVAVLRE*APKIRIQLATMPLELA DASDQQDNGAEMNLVYDRD TMARLGLDVLAAANSLNNAFG QRQISTIQPMNQYKVVMEVD PRYTQDISALEKMFVINNEGKA IPLSYFAKWQPANAPLSVNHQG LWRALTIWFTLPTGKSLCDPS AAIDRAMTQLGVPSTVRGSFAG TAIQVFQETMNSQVILIAAIAT VYIVLGLIYESYVHPLTILSTLPS AGVGALLALELFNAPFLIALIG IMLLIGIVKKNAIMMVDFALEA QRHGNLTPQEAIFQACLLRFRP IMMTTLAALFGALPLVLSGGDG SELRQPLGITIVGGVMSQLLT LYTTPVVYLFDRLLRFSRKP KQTVTDTRWQLWIVAFGFFMQ SLDITIVNTALPSMAQSLGESPL HMHMVIVSYVLTAVMLPASG WLADKVGVRNIFFTAIVLFTLG SLFCALSSSTIRIILRFVSLHMR WQFRDLTFWQMRFRNTNPITSG GSDDSLMLNQSHQRSYSSSI
9297	39665	A	9357	3218	3337	
9298	39666	A	9358	252	771	RRCQILLSGSLHSSWRTLPGHV *QLASAHRRPRR*LPGLEPGEL FVHRNVANLVIHTDLNCLSVV QYAVDVLEVEHIIICGHYCGCG VQAAVENPELGLINNWLHIRD IIHGWAYGIHDGLLRDLDTAT NRETLEQRYRHGISNLKRDVHF TTGRFIQORTNRQRLRFAQA
9299	39667	B	9359	604	831	
9300	39668	B	9360	1	1104	
9301	39669	A	9361	242	337	LTVIHGVSAKTIVLSSAVPIQ*K TVRRVSRR

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9302	39670	A	9362	2208	3411	LAADHRRRNAVQRPCNGGQSV QSTDEAAGRLSHADTHGRPA RALPGDCRPETLLRTAGVAE*T KALYTLRSEKTRERPMDKQQA SDEKHRRFHDKESFLA/FVNL WNY/LGEQQKALSSNAFRRLCR TDYLNLYLRVREWQDIYTLRQ VVKELGIPVNSEPAEYREIHIAL LTGLLSHIGMKDADKQEVTGA RNARFSIFPGSGLFKKPPK WVM VAELVETSRLWGRIAARIDPEW VEPVAQHLLIKRTYSEPHWERAQ GAVMATEKVTVYGLPIVAARK VNYSQIDPALHDTIELGTSPAF LITRWGFGRNLSRTSGGPRQEP RRKEIAMELVLKDAQSALT VSE TTFGRDFNEALVHQVVVAYAA GARQGTAPKTRAAVTGGMPT LYAVGRLSRIPMDT
9303	39671	A	9363	79	559	TLSPGSINPFKPN*DSVPMTL/ RRFIEVRVFQIHHMRQRP AHL W
9304	39672	A	9364	1	655	THWER/A/QGAVMATEKVTVY GFRIVAARKVNYSQIDPALCRE LFIRHALVEGDWQTRHAFFREN LKLRAEVEELEHKSRRRDILVD DETLFEFYDQRI SHDVISARHFD SWWKKVSRETPDLLNFEKSM LI KEGAEKISKLDYPNFWHQGNL KLRLSYQFEPGADADGVTVHIP LPLLNQVEESGFEWQIPGL/RRE LVMPD*SCQTVTFVPANSHSY

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9305	39673	A	9365	1	2082	MDIQEFPDLKGTTSLEILTLTRA GIRLLPSGMCQQLPRLRVLELS HNQIEELPSLHRCQKLEELGLQH NRIWEIGADTFSQLSSLQALDLS WNAIRSIHPEAFSTLHSLVKL.DL TYSQTLTTLPLAGLGLMHLKL KGNLALSQAFSKDSFPKLRILE VPYAYQCCPYGMCASFKAASG QWEAEDLHLDDESSKRPLGLL ARQAENHYDQDLDELQLEMED SKP/TPSVQCSPTPCPFKPEYL FESWGIRLAVVAIVLLSVLCNG LVLLTVFAGGPAPLPVVKFVVG AIAGANTLTGISGLLASVDAL TFGQFSEY/GLARWETGLGCRA TGFLAVLGSEASVLLTLAAVQ CSVSVCVRAYGKSPSLGSVRA GVLGCLALAGLAAALPLASVG EYGASPLCLPYAPPEGQPAALG FTVALVMMKLLLSWVFGPLP YHQNWYCDLPRGDFEAVWDC AHGEATWAWPHLRKTGLLYCP VAFLSFASMLGLFPVTPEAVKS VLLVVLPLPACLNPLLYLLFNP HFRDDLRLRLRTPRRRTQGGP*PL CCGREDAGERASCDSYPQALV APSLMWISFCEAS*\$WAGPLEL ETYGFPSVTLISCQQFGAPRLEG THCVEPEGNHFGNPQPSLDGEL LLRAEGSTPASGGLSGGWRLSA LWLGLWLHTCKYSPSPFFSSPLF PFLSPSPVNDGCF
9306	39674	B	9366	1	510	
9307	39675	A	9367	88	246	TPMRPMKSPMPTPVSRSGSSSK MG*SSASL*RSIPGLDAGKTPW PAGRSGTWA
9308	39676	A	9368	693	1041	AEGYSQCPNAREGHVDEENED SAPAAQKIP*I*ED*SPHVSQVPV EGEEECVKKQ/GRFSWNTSTS* RQT/TARKLLADQAEARRSKT KEAHKSYEEHLQAKKEEIIKTL SKEETKK
9309	39677	A	9369	1	1911	

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9310	39678	A	9370	1	921	MWRSIFLDSRYLLSSRRKILILIL HVTFSGIRALAVPFRLPVEKMS FIFMGDVIHRLMLTATQYVAPL MANFNPGYSDNSTVVYFDNGQ QIRKLIKDGIIIRKPVTVHSRAR CRKNTLARRKGRHIMGIEFACFC CVFLTPALICMVCAVRLLTRDP YLASGDQPLERATGEHASMHE YVPGELGIQPPGLYPSHPPGRA GTLRALSRQDTFDADTPGSRNS AYTEL*DSQVMDMTDPSEGPGL GDPCE/GTPPARQGSWEDEED YEEELTDNRNRGRNKARYCAE GWGPVLGRNKNELEGWGRGV
9311	39679	A	9371	3	740	ELFPFAAAAAAAMSMRLQKRL ASSVLRMWQRTNGLG*TPMRP M*SPMPTPRQIPEAHQRWAD HP/LSLVTGPFPGSMPEKTPLA\ AGEGAGQHGA LGKAGRGTSQ MPGMPGEGQHGLRRIEDFGAG LLQKDTGEI*RRSDRPHVFTAC YLEGEGGMLFQKQGGFFMGTL PQG*RODKGPQRSFLADQA*RP QGLRTKESTESAEEERLPQQRK EEINQRLYSKEGRPRPNKNLPL GSVHTWPLVIT
9312	39680	A	9372	1	2229	
9313	39681	A	9373	3	1560	SGPNSLKFYDWGETVPQWPPIF GLSPAFGFPLCFPRGLGETIFSSR PHIR/RNYPELQKRLNGWLSAA LKTARILTVCAVVMLLLSAWG LFDWNWLQNGAGQKNP*NIP D/LRIRNSILFL/LSAVGWTVLA\ SLIENRLASDHGRPLPSARTR TLTLFRNALAVIISTITIMIVLS EIGVNIAPLAGAGALGLAISGF SQTLYKDIHTGVFIQFENGMTG DLVTIGPLTGTVERMSIRSVGV RQDTGAYHIIPWSSITTFANFV RGIGSVGANVDVDRHEDADKA NQALRDAVEDDETRFTSESPIL RCCQREGGLKAVVQILLSHGR NGLPGEPASSQGLSAASSTPVF HLALQIDSAPDNIDWVEMLFNK NMVTERLQNMVMLEQCFSDSS SLYRFLTYSYLLAFNVWLLAP VTLCYDWQVGSIPLVETIWD RNLATIFLAVVMALLSLHCLAA FKSRVTASIPGCIKAHAVENVL TTKSKTRIYPEVVVQSGLQKQK GKGSVMFIEAAGL

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9314	39682	A	9374	3	276	VRQYR/LGN/MHQQRMAEMID ARQQAFGEAGACWGGCPKHR VMLDASGKPGNDLCAGYQRD VRHLPRYLKAMADLLAIGRPA SDIMHAHLV
9315	39683	A	9375	102	916	RSLLAIFNHW*IKRDLGKFLVW NIK W/AFKFCRSAGQTSGRSVI VEHNGEIYACDHVYPQYRLG NMHRQRMAEMIDSRQQAFGE DKFKQLPAQCRSCNVLKACWG GCPKHRFMLDASGKPGLNLYC AGYQRYRHLPPYLKAMADLL AHGRPASDIMHAHKVFKRGT ACSGFQKGGPLFRSTGYCPTL RKKAPCPKTGLLGKKWTPQRR NSSGKSCAKRRGDPPLENRFN GSRVQRKPQWNSCTGHPENN FPNYGGTYPQRMWPL
9316	39684	A	9376	338	1155	SIFISIGNLAANDLSPSRIARLQK ILHSYVPEIRDGNQVRVTSWD GRKWGELEGDTYDRVLVDVPC TDRHSLHEEENNIFKRSRKKE RQILPVLQVQLLAAGLLATKPG GHVVYSTCSLSHLQNEYVVQG AIELLPINTASRYRWKI*LTSEG FSWTHFVSSQSCPGWGAGNTK TSLANLALCTSAKCVGT*YPP QSLKQEYQRYVSVGCTRNWKL GPVAMHSRSLHPVRVFLQFS AIRSRRFVLLSNCGASAWFPT SLINYPYIS
9317	39685	C	9377	157	453	
9318	39686	A	9378	486	1195	ARPQQYEQVPGKAEASEWERG SSAPTGGGHAAAAAGGVGGG EGSPPALHGRGARAG/GAGICM GLRQQLNR*AMDLTGAGGPAP AGAAGAVARGGGRHQGPAG GRGRGLGFAAGTAEPGAPHR PLQRALPPIRREPGERHRAPRAG AAPQCGSARPRQPRAPQSLRAG ALPEAHQGGQGPARTHPAEPGP AARRAQSLCRHWD*GRGRPG PPDALRGGAASDFRLSARTPICR
9319	39687	A	9379	10	1278	

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9320	39688	A	9380	1	1305	MECVVCVKEKEREKEGKEEEE EDEAVAERGGKGERRGERRGE RKREKETYTEKNRYRDTKRDR DRERKEPYEIPSSLIHGDPKDE LDRNLALKQVKTYWVIQFSKSI EVIEKRMAVLNEQVKEAEGSS AEYKKEIEELKELLPEITEKTED AKESQTTGNVAELALKATLGG GSSVS/SIASRKPTDGASSNCV TDISHFVRKKRPPEEQSPWKDD AKKVKQLEVNNGSGDAVPSG NEVLNMEEEAENRVESRAAV EGTVEAGATAESTAYMYDIPA MYQENTAVSKTDEVSDLIHLK AQTDLAQERAGKRASPDGG SAEGQAQSDRQEATKQRHKQE AGDRHYDKQMLEYQGAHEL SSREKRKEKKKKPPHRLPPTP VALHGAKRRLTKRLFNASPN KPKGHSTQFSVMSQAEQQPVL
9321	39689	A	9381	67	458	WDMANSCKDVTGPDDEESFLY FAYGSNLLTERIHLRNPAAFFC VARLQQEGVKSGMYVIVVK VATQEGKEITCRSYLMTNYESA PPSPQYKKIICMGAKENGLPLE YQEKLLKAIENPTYTGKGSEENE
9322	39690	A	9382	139	710	WDMANSCKDVTGPDDEESFLY FAYGSNLLTERIHLRNPAAFFC VARLQDFKLDGNSQGKTSQT WHGGIATIFQSPGDEVWGVVW KMNKSNLNSLDEQEGVKSGMY VIVVKVATQEGKEITCRSYLM TNYESAPPSQYKKIICMGAKE NGLPLEYQEKLLKAIENPTYTGK VSEEDIIKKGETQTL
9323	39691	A	9383	1	731	MANSCKDVTGPDDEESFLYFA YGSNLLTERIHLRNPAAFFCV ARLQLLIESPRMSRLAKFWPRT HAVILSKTERTSFWPLKPKQWE SGSDTPYSQTRKDFKLDGNSQ GKTSQTWHGGIATIFQSPGDEV WGVVWKMKNLNSLDEQEG VKSGMYVIVVKVATQEGKEIT CRSYLMTNYESAPPSQYKKIIC MGAKENGRLKYQEKLLKAIEN PTYTGKVSEEDIIKKGGTTKL
9324	39692	A	9384	41	333	MFCNTDLGT/LCCTDVVARGLD IPQVNWVIVHDHPDDPKYIHR VVPFVVDLNVNGNEGKQKKRG GGGGFDYQKIKKVEKSKIFKHI SKKSSDSRQLSH

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9325	39693	A	9385	3	1852	SKQKPMNVGLSETQNGGMSQE AVGNIKVTKSPQKSVLTNGEA AMQSSNSESKKKKKKRKMV NDAEPDTKKAktenKKGSEEE SAETTKETENNVEKPDNDEDES EVPSLPLGLTGAFEDTSFASLCN LVNENTLKAIKEMGFTNMTEIQ HKSIRPLEGRDLLAAAKTGSG KTLAFLIPAVELIVKLRFMPRNG TGVILISPTRELAMQTFGVLKE LMTIHIVHTYGLIMGGSNRSAE AQLGNGINIIVATPGRLLDHM QNTPGFMYKNLQCLVIDEADRI LDVGFEELKQIHKLLPTRRQTM LFSATQTRKVEDLARISLKKKEPL YVGVDDEKANATVDGLEQGY VVCPEKRFLLFTFLKKNRKK KLMVFFSSCMVVKYHYELLNYI DLPVLAIHGKQKQNKRTTTFQ FCNADSGTLLCTDVAARGLDIP EVDWIVQYDPPDDPKEYIHRVG RTARGVLNRRGHALLILRPEELG FLRYLKQSKVPLSEDFSWSKIS DIQSQLEKLEIKNYFLHKSA/Q EAYKSYIRAYDSHSLKQIFNVN NLNLPQVALSFGFKVPPFVDLN VNSNEGKQKKRGGGGGFGYQ KTKKVEKSKIFKHISKSSDSRQ

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9326	39694	A	9386	1	2703	MAQQATLCSMKGCMRALVAQ LKSESEDLQQTVQAKREVPKSK VPAAEKRESGPKQAAVNAAVQ RVQVLPDVTLLHFATESTPDG FSCSSSLSALSDEPFQKDVEL RIMPPVQENDNGNETESEQPEE SNENQDKVEKPDSEKDLLDDSD DDDDIEILECIISAMPTKSSRK AKKLAQTASKLPPPVARKPSQL PVYKLLPAQNRLQAQKHVSFTF GDDVPRVYCVGTPINFSTATS LSDLTIESPPNELATGD/GVRA/S IQSGKSHKPFVRVK/IMDQVQQ ASSTSSGANKNQVDTKKKKPTS PVKMPQNTYRTRLPNEDR VRGSFALDSPHHYPIEGTPYCF SRNDSLSSLDFFFFFFDLSREK AELRKGESKDSKAEKVTCTPEP NSSQQAASKSQASIKHPANRAQ SKPVLQKQPTFPQSSKDGPDRG AATDEKLQNFIAIENTPVCFSRN SSLSLSDIDQENNNNNKESEPIK EAEPANSQGEPSRQLSQQNLTK QASLSKNASSIPRESASKGLNQ MSNNGSGNKKVELSRMSSTKS SGSESDRSERPALVRQSTFIKEA PSPTLRKLEESASFESLSPSSRP DSPTRSQAQTPVLSPLPDMSL THPSVQAESEKAKSEDERHVS SMPAPRQMKENQVPTKGTWR KIKESDISPTGMASQASGAS GAESKPLIYQMAPPVSKTEDV
9327	39695	A	9387	2	193	QSSE*NIQGPCNVWSSR*RWER SKGRRLSSASRPLSALSTLRFT SVSQHAAKRVVIRPQGG
9328	39696	A	9388	395	761	SMQKPRPIAHRQRCRAAMAA/ GQQPQIPITITGTGVVYPGAITM ATTTSPQMSTDCSSSTASPEPS LPVIQSTYGMKTDGGSLAGNQ MINGEDEMAMYDDYEDDPKS DYSENEAPEAVSAN
9329	39697	B	9389	1	477	

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9330	39698	A	9390	167	890	LSGARSSQGRLPWGRGDAVSTSTSRNRNRTGASDERNNHEPGKN SPYLQAQVVRIGGKGFTARRKKK VVHRTATA\DDKKLQFSLKKL GVNHMSGIEVNM\FTNQGTSG STFNPN*KVQAISWAANTFHL PGPCWRPKPADKKWL.PQPSL PSL.GAG*S*LRFKGLARSFLPP NNPVDGKATHLPTG\KDDDD KVPRSLWRILMRLPKNEGKLEL RSTSR*NLEEVTVGSRVFKIMT AF
9331	39699	A	9391	2	315	GAASLLRAGPGSSGSDP\PLSSR FVERRGALYRSPMNQENPPYP GPGPTAPYPQYQGWQGGPQEP KTTVYVVEDQRRDELGPSTCLT ACWTALCCCCLWDMLT
9332	39700	A	9392	263	680	LLLPAVLTSAPLPPAGLATCP RLAQLGIGRAAPQKRSRPRRNP EASRGRPPDGVWRAPLR/VPPT PRETEPQRRGDPGLRNPCLSQ SPGAPQFSGP/PPGSPGTRPVRA* SPPGPSWVGPGPLHLTSLPNRL DNGRV
9333	39701	A	9393	2	537	SGARLLTTCSETGAASLLRAGP GSSGSDP\PLSSRFVESRGALYR SPMNQENPPYPGPGPTAPYPP YPPQPMGPGPIGGPYPPQGY YPRIPTVRLAGWTSGLLKTTV LLWVGRPKKEEMKLGTHLPSQ AGTGCLLLSLGTWFTLTRTRP RPFLFLASSAANLLTGVCPIHLF
9334	39702	A	9394	3	470	PKAKKEAPAPKAEAKAKALK AKKAVLKGVHNHT\QKKKIHTP LTFQRPKSLRLRQPKYPRKSA PRRNKLDHYAIKFP.LTTESAM KKIEDNNTLVFIVDVKANKHQI KQAVQKLYDIDVAKVNTLIRPD GEKKAYVRLAPDYDALDVAN KIGII

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9335	39703	A	9395	1	1144	MLYQVLMVDTCGRGEGAFLK YRK PACPTALGFMFPRSHGLTA DTVLVSSLRWFLWRRLLLLL LLLLNLPLQKAVHRKATPESAI ADCSGRDCAPWVKFAMLELH SFKCPAGEYWSKDVCCKNCSA GTFVKAPCEIPTQGQCEKCHP GTFTEKDNYLDACILCSTCDKG DFYGGKTAVHEALCDNIDTRT VMEEMRALVSQCNLYMAARK AERRRPNRALLENIAMYLTHM LKIFGAIEEESPLGFVPVGGPGTN LNPIENGMDKFLTTSVSLRKT HRVSNQNSVCRSVSYWKPKC TFCSLTHITYIRYLELRLTLESTV MPYLQVLSEFREGVRKIAREKK VLEVLQLSDALRVTSCLSLGSG LKTMKPECLLF
9336	39704	A	9396	1	639	MDGDEKTSFICAVHNGIFREW QTGTCSPIKKGQLLRVECHGK IKAQGGQMYIKAALFRAKTW NQPKCPSMIDWIKKMWWHIY/ TCEYYTAIKKKIMSSVETWMEL EAHLSKLTQEQQSKFRFTSLYSS RVFQRTQDVPYHNKLNEADK PTTNKKGLILNLRVNTPIGRK NTGKLSAIEKKLLRPPKPKHLS KIYTLKNDSDLIKDKNI
9337	39705	B	9397	1	825	
9338	39706	A	9398	2	285	HEENRPFVCEH/AGCGKT/FAN KPSLTSDAVVH/DPGKKMKML KVKKSRKESRLASHLSGYIPPK RKQGGQLSLCQNGESPNCVED KMLSAPVPLTLG
9339	39707	A	9399	2003	2344	PFVGVFWLFFFSVFVTFVPP EYYVLPA PPHRSVFLVFGRV VFFFLPC/CDFRSRLTPPFVCAP PAPPLPFVSVCPVPSLSCGDVC AADKKNKKKFLNTRWKKKT
9340	39708	B	9400	3	113	
9341	39709	C	9401	48	182	

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9342	39710	A	9402	2	752	VWWNSRRRPVKRRRLASPSY ACSGRSAGFLDNCAMCAARLA AAAAAQSVYAFSARPLAGGEP VSLGSLRGKVLLIENVASL*GTT VRDYTQMNELQRRLLGPRGLVV LGFPNCNQFGHQENAKNEEILNS LKYVRPGGGIEPNFIMLFHKSE VNAGAGHPLFAFLREALPAPIS DDATALMTDPKLITWSPV/CRK DPGKIKFFLGPPGNFFKFLGGP CTVLP LRRYSRRF/QTIDIEPDIE ALLSQGPSCA
9343	39711	A	9403	1	1128	ARCDHPTAFVVCYRFYPWPAG HVDAAVH*YVCARATDSFIAV WRTLLKGTIIILHESSIHDNFNLT SQKLWAFVPNKAPRTSGIICWP EIQSAFQGGNLYFTIPIVDRNS TNYVLRQVRLLGN
9344	39712	A	9404	7	378	
9345	39713	A	9405	318	616	DPAGFPGCWKPLFYDLHYRSQ LHQLCLQAGRTPGQFGHQHRF WWQFCT*EIPALQPLPEGNLV SCNEQSF GAPATGTNPGEVHP AALGTWLYLLPPC
9346	39714	A	9406	1	145	MEYYAVIKKDEFMSFAGTWM KLETHLSKLTQE/QKFTPLMFSL ISGS

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9347	39715	A	9407	1	2052	MVLVVVAVVVVVLVVAIVV VVVVVAVVVVGAVVVVVVV MVVVVVVVVEEDNQHKGTGA INNNNTAKNPQSPFHSPTST GAEATQMRRNQKTNPHNMTK QVSLTPPKITLAHQWQTKKK YLIYLKKHSGVKNIPRNPTYEG CEGPFQGGELQTTAQQNGGHHK QTEDHSMMLDRKNQYCENGH TAQAVPNPYTLLSQIPDAEWF TVLDPKHAVFCIPVHPDSQFLF AFEDPSNPMSQLIWTVPQGF NSPHLFGQALAQDLSQFSYLD LVLRVMDLLLAHSETLCHQ ATQALLNFLATCGYKVKPKA QLCSQQVKYLGKLSKGRTRL EERIQPILGYPHPKTLKQLTAF GITGFCQIWIPRYSKIARPLN KETQKANTHLVRWTPAEAVAF QALKKALTHAPVLSLPVGGNFS LYVTEKITGIALGVLT/PGTSAQ LAELIALTRAPELGEGKRVNIY ANSIGREREFLLSKGTLVKHQE AIKRLLLAVQPKPEAVLHCW GHQKGEREIEENRQADIEARR AARQDPPEMLTEGPLAFELA MATARAELSLIIHCCLPPPPQ TRCWLPSLRIRQGVCCIPDPAR AITLTAWPKIPFLGIRKAKNPRS EKTRLATILEAACCHFGSGPPPS WELWEQGPVTVQTHILRSHL
9348	39716	A	9408	2	350	YKVSFKPAQLCSQQVKYLWLK LSKGTALSEERIQPIALYPHPK TLKQLRGILGTGFCRIWIPR*S SPTGQE/FSLYVTEETGIALGILT QVQGTSLQPMEYLNKEIDELDQ GRTH
9349	39717	A	9409	1	749	MNQSDQEMTGAFVHMKSYTG LISGVAVKMERHIYQDRRIAIEK EFNSCRTGCMGDWSFTITQIRL LENTGIRVFKDNLVEAEWFTV LDLMDAFFCIPVHPDSQFLFAFE DPSNPASQLTWTVPQRFKNP HLFGQALAQDLSQFSYLDLTLV RYMDDLLLAAYSETLCHQATE ALLNFLATCGYKVKPKAQLCS QQVKYLGKLSKGRDLTTFPL VNEEKIE/P*LSTSNCSKLRCRSG TSRGS LG
9350	39718	A	9410	118	174	
9351	39719	A	9411	577	3018	

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9352	39720	A	9412	310	1964	TFRLTEPTQMRRNQKTNPHNM TKQGSSIPPQKNHTSSPAMDPN QEEIPDLPEKNSGVNKIIPRNPT YEGCEGPFQGELQTTAQQKNG GHKQTEDHSMMLDRKNQYCE NGHTAQAVPNPYTLI.SQIPEDA EWFTVLDPKHAVFCIPVHPDSQ FLFAFEDPSNPMSQLIWTVLPQ GFRNSPHLFGQALAQDLSQFSY LDTLVLRVMDLLATHSETLC HQATQALLNFLATCGYKVSKE KAQLCSQQVKYLGKLSKGTR TLSEERIQPIGYPHPKTLKQLT AFLGITGFCQIWPSILTAKGDL WLSDNHLLKYQVLLLEGVLPQ LRTCATLNPATFLPDNEEKIEH NCQQVIAQTYATRGLLEVPLT DPDLNLYTDGSSFVQKGLQKA GYAVVSDNGILESNPFTPGTST QLAELVALTWALEFGEGKRVN INTGSKYAYLVLHAHASIWRER EFLTSEGTPKHQEAIRRLLLVV QKPEEVAVLHCWGHKPKGERE IEGNCQADIEAKRASRDPPLE MLIERHLVWGNPLWETNPQYS
9353	39721	A	9413	3	370	RCCPCPRVHHMHISARAIRPPP RPPFLLLLVFLFQTGPCSHPGC SPPPAHPSCSSWPQWPG/CSSPV SVLLAKPAACLIAAAVSANPRL LFKPCCRTASNWAHRQVTLQC WSELSSCFWPE
9354	39722	A	9414	191	1375	EWPEGGRYSSVPSAVHHART CLAAELSGTSRQPEPRALPPETG VATAEAESNQPAAISK/PNGQ GAPLQR/RSPLSPSPGAAQVPA LPMQDMSEGSPPSPGGHIWL ASLTPCSLALWNSCCQSPGSQP RGRDEGDCLVRATEPSATGPDP RRTRLCSISASLVVRNTDPGIS DRRPGISDRRPGTSDRRPGTSDR RPGISDRRPGTSDRRPGTSDRRP GTSDRRPGTSDRRPGISDRRPGT SDRRPGISDRRPGTSDRRPGISD RRPGTSDRRPGTSDRRPGISRLP RDWIPAAAASRENSNSADARN RCSSPSRKCCQPTPSHRMRGSAG SVGSSAGHTAGGTGLTPSRCS QALQVFPAVLGKRGLFSWERS LKQRDIRGPDFSSTALI
9355	39723	A	9415	3	523	

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9356	39724	A	9416	1	846	MLCDFQDGSTSRHVNPEPSNNPS PQPWSEDDQGASATVPCA KSV MHR LKKFTIEYLVVKFLKAVS HAIQMEMLAPKGPSPIPEDASV KEENICRAFS DALL YKIEDIDNK DWN NPQLCSDY/VKDNAYTSF QIQEMETILKELKFEVGGPLPL HFLRQASKAGKADVEQHTLAK YLMELTLIDYDMMHYHPSKAA TAASCLSQVLGQGWNLKQQ CYTGYTQNEVLEVMQHVAKN VLKVNENLTKFIAIKNKYASNK FLKISMIPQLNSKAIKDLAFLPM GGS
9357	39725	A	9417	72	1340	CPPFSVRVPPWAGLALLPSPSL MALLRRPTVSSDENIDTGVNS KVKSHVTIRRTVLEEIGNRVTT RAAQVAKKAQNTKVPVQPTKT TNV NKQLKPTASVKPVQMEKL APKGPSPTPEDVSMKEENLCQA FSDALLCKIEDIDNEDWENPQL CSDYVVKDIYQYLRLQEV LQ SIN PHFLDGRDINGRMRILVDWL VQVHSKFRLLQETLYMCVGIM DRFLQVQPVSRKKLQLVGITAL LLAPKYEKMFSPNIEDFVYITD NAYPSIQIREMETLILKELKFEL GRPLPLHFLRRASKAGEVDVEQ HTLAKYLMELTLIDYDMVHY HPISKVAAAASCLSQVLGQGWK WNLKQYYHKDTQENEVLEV MQHMAKNVVKVNENLTKFIAI KNKYASSKLLKISMIPQLNSKA VKDLASPLIGRS

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9358	39726	A	9418	1	1875	EPEKQQLYDIPASPKKAGLHPP DSQASGQGVPLISVTTLRGGY STLPNPQKSEWIYDTPVSPGKA SVRNTPLTSFAEESRPHALPSSS STFYNPSPGRSRLTPQLNNNV MQKKLSLPEIPSYGFLVPRGTFP LDEDVSYKVPSSFLIPRVEQQN TKPNYDIPKATSSVSQAGKELE KAKEVSENSAGQIPHGSPDGQ/ RSPSPEDRLSGSSSDSRASIVSS CSTTSTDSSSSSEESAKELSL DLDVAKETVMALQHKVVSVA GLMLFVSRKWRFRDYLEANID AIHRSTDHIEESVREFLDFARGV HGTACNLTDNLQNRIRDQMQ TISNSYRILLETKESLDNRNWPL EVLVTDVSQNSPDDLERFVMV ARMLPEDIKRFASIVIANGRLLF KRNCEKEETVQLTPNAEFKCEK YIQPPQRETESHQKSTPSTKQRE DEHSELKKNRANICGQTLPN LEEKDKPILEQRLDENKDLGTM NPGLIPQPSQQTPERKPRLSE HCRLYFGALFKAISAFHGLSSS QPAEHTQSKLVIMVGQKLVDT LCMETQERDVRNEILRGSSHL SLLKDVALATKNAVLTYPSPAA LGHLQAEAEKLEQHTQRFRGT

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9359	39727	A	9419	1	2013	MGLKSWGGMGLGTAFGKGLR GEKAWCVSGRYHWRYSQWSG TLTQGPVWVRVHSLSDRVYDV PTQHRGPVVLKEPEKQQLYDIP ASPKKAGLHPPDSQASGGVPL ISVTTLRRGGYSTLPNPQKSEWI YDTPVSPGKASVRNTPLTSFAE ESRPHALPSSSTFYNNPFSGRSR SLTPQLNNNPMQKKLSLPEIPS YGFLVPRGTFPLDEDVSYKVPS SFLIPRVEQQNTKPNYDIPKAT SSVSQAGKELEKAKEVSSENSAG IQIPHGSPDGG/RSPPSEPDRLSG SSSDSRASIVSSCTTSTDSSSS SSEESAKELSLDLDAKETVMA LQHKVSVSSVAGLMLFVSRKWR FRDYLEANIDAIHRSTDHIEESV REFLDFARGVHGTAACNLTDNL QNRIRDQMOTISNSYRILLETKE SLDNRNWPLEVLVTDSVQNSP DDLRFVMMVARMLPEDIKRFAS IVIANGRLLFKRNCEKEETVQL TPNAEFKCEKYIOPQRETESH QKSTPSTKQREDEHSSSELLKKN RANICGQNPGPLIPQSSQQTPE RKPRLSEHCRLYFGALFKAISAF HGSLSSQPAEIIQSKLVIMVG QKLVDTLCMETQERDVRNEILR GSSHLCSLKDVALATKNAVLT YPSPAALGHLQAEAEKLEQHTR
9360	39728	A	9420	3	645	DFHTN/K/RVCEEIPILSKKLHN RRAGCVTHLTNQIRGPPVRGISI KLQEEEEKERRDNYVPKVSALD QEIIIEVDPTKEMKLKLLDFGSL NLQQQKATRVYAVVQISAPMF LLWALPLSVAPLITDFKMFVTT SYLISLFLIINSSANPIYFFVGS L RKRLKESLRVILQRALADKPE VGRNKAAGIDPMEQPHSTQH VENLLPREHRVDVET
9361	39729	A	9421	312	694	LTPAPRKNVTEKYVMCLGNDF HTN/K/RVCEEIPILSKKLHNRR AGCVTHLTNQIRGPPVRGISIKL QEEEEKERRDNYVPKVSALDQEI IEVDPTKEMKLKLLDFGSLSNL QVTRPTVGMNFKMPRGAV
9362	39730	A	9422	3	383	

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9363	39731	A	9423	304	1862	RMLEATSKMRKGVPSIQ/SSQ GNSYTLIPSAKSDNLSDDSHSEI SSRSSIVNCSVDMSAALQDE RCSSQALAVPESTGALEKTEHA SGIGDHSQHGPWTLKPSLIK CLAVSSSVSNEEISQEHIIIEAAD SGSWEVGTSCSSSHDNFQSLP NPKSWDFLNSYRHTLDDPIAE VEPTDSEPYSCSKSCSRTCQC KGSLEKSWTSSSLSDTYEPN YGTVKRRVLESTPAESSEGLDP KDATDPVYKTVTSSTEKGLIVY CVTSPKKDDRYREPPPTPPGYL GISLADLKEGPHTHLKPPDYSV AVQRKMMHNSLSRLPPASLSS NLVACVPSKIVTQQRHNLQPF HPKLGDVTDADSEADATLGNK CKLLYMSDVRNPVPAVKDVLV QKYTSFNFFHPQEALDRRREEL ALPEGASGEACLSRLKRSV QALAQQTSHRNFLPEKQPFSAQ AAGILHGSINHNRGPCCLLEG KMMTGVLRYAYLLCIAYSRDLI VDEQIMNGLRKA

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9364	39732	A	9424	1	1335	MTFKNPKYPFVSNLAKQKGM SVIKVNGKLQSQSNPNRTTNGPDP SGMKVWVSPQGKNPQPTVEVLA EGKGNTWVVEEDTRNFGFI QKHTDIGIKYDSSTGIYDLDFN VVLDRRASEEGITLTAALAADR ETPSENCLPSPVNPTAQEGEIGH PDPHIVLEQEDPTTAPHPRQLCQ QQQCQRPLCRLQPVVPHIVDLT PLTEIGSEEPVVGELNFKHIRFEV SEDNMTFDASDQGPFFENYWQ LVL SATPGDVTWNGALGLHTP KSSSPDTCASQAQSQCWELSPG GRRIGTL L L PQESGASWL PPGV TSSLA AVR VIMNCGDKATPRN GGVRTLKKLSSLP LSKAGGKVL YGEINPEQEVQASLSFAALLES YGIFMETEFLVACLISQGGQLR NQDFSSSIYSLAPGLDPSSVRA GAQRTAPPWGISPRSC/PVIKVN GKLQSQSNPNRTTNGPDPGSMK VWVSPQGKNPQPTVEVLAEGKG NTEWVVEEDTRNFGFIQKHT DIGIKYDSSTGIYDLDFNVVLDR RASEEGITLTAALAADRETPSE NCLPSPVNPTAQEGEIGHDPHIV VLEQEDPTTAPHPRQLCQQQQC QRPLCRLQPVVPHIVDLTPLTEI GSEEPVVGELNFKHIRFEVSEDN MTFDASDQGPFFENYWQLVLS ATPGDVTWNGALGLHTPKSSSP DTCASQAQSQCWELSPGGRRIG
9365	39733	A	9425	56	235	
9366	39734	A	9426	1	515	
9367	39735	A	9427	138	830	AWAQLPSALGSTRVSPPPSARS QPPWRRRHK/CLLETEPLQGT EDAVASADFSMLSEEEKEELK AELVQLEDEITTLRQVLSA/KER HLVEIKQKGLMNLMLNELK/QNF SKSWHDMQTTTAYKRTHDTL SHAGQKATAAFSNVGTAKSKKF GDMSYSIRHSISMAMPARNSTPF KSFEERVETTTSKTKVGGTN PNGGSFEVLSSTAHAASQSLA GGSRRTKEEELQC
9368	39736	A	9428	3	381	LLETEPLQGTDEDALASADFS MLYEEKEEVKAELVQLEDEIT TLRQVLSAKERHLVEIKQKLG MNLMLNELKQNFSSKSWHDMQT TTAYKKTHTLTHAGQKATAA FSNVGTAKSKFGDMRRK

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9369	39737	B	9429	79	426	
9370	39738	A	9430	1	570	
9371	39739	A	9431	1	1677	<p>MLESVNVRLLEDLITGPCWEAG WNAGYAFLVVAVEDFTIGKLF DKLEGTKLCLKNALPRVITQTE SHRQRLLEAAAAWHSWLIKV QKMKAVYHILNMCNIDVTQCC VIAEIWFVPADATRIKRALEQG MELSGSSMAPIMTTVQSKTAPP TFNRTNKFTAGFQNIVDAYGV GSYREINPAPYTIITFPFLFAVMF GDCGHGTVMLLAALWMILNER RLLSQKTDNEIWNTEFFHGRYLI LLMGIFSIYTLIYNDCFSKSLNI FGSSWSVQPMFRNGTWKTGTH DPHLAVLFKMGHVEGRDCVLR IVLAKIGYRNGFLRKIWNLASN KLTFLNSYKMKMSVILGIVQM VFGVILSLFNHIYFRRTLNIILQF IPEMIFILCLFGYLVFMIIFKWCC FDVHVVSQHAPSILIHFINMFLFN YSDSSNAPLYKHQNFNGDVFV HQAHTIEYCLGCISNTASYLRL WALSLAHAQLSEVLWTMVMN SGLQTRGWGGIVGVFIIFAVFA VLTVAILLIMEGLSAFLHALRL HWWFEQNKFYVGDGYKFSFSS FKHILDGTAAE</p>
9372	39740	A	9432	3	933	<p>GTWFPVSSAASIYAGTGGLGSKI SMSCSTSFWGGLGSGGLATEM AGGLAEMGGIQNEKETMQSLN DHLDYLDVRNLETENWRLES KIQEYLEKRPHVRDWHGYFKTI KELRAQIFANTVDNVHILQIDN AQSSMRQELAMRQSVESNIHG LCKVIDDTNVTLLQLETEMGAL KEELLMMKKNHHEEVKGLQVQ IANSGLAVEVDAPKSQVLAKM EQLNRILLYLESKLAQNWAEG QRKVQYKDLLNIRVKLEAEIA TYRRLLEDSEGLNLGDALDSSN SMQTIQKTTTRQIVDSKVVSEIS DTKVLRH</p>
9373	39741	A	9433	3	698	

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9374	39742	A	9434	2	479	PRVRESTTVVTTQSAEVGAAET TLTELRRTVQSLIEDLSMRNL KASLENSLREVEARYALQMEQ LNGILLHLESELAQTRAEGQRQ AQEYEALLNIKVKLEAIEA/TTY RRLEDEDGEDFNLDALDSSNS MQTIQKTTTTRRIVDGGKVVSETN DTKVLRLH
9375	39743	A	9435	1	618	AEHLKPLPADKQIETGPFL VSHLPFFDCLGSPVFTPIKADIS GNITKIKAGYDTNQPRFRTLKT ILEGEKEMYGAKGPKVGATLA LMWLKRGRLFIQVFLQSCDGE RDEHNPNLRV NATKAYEMAL KKYHGWIVQKIFQAALYAAPY KSDFLKALSKGQNVTEEECLEK IRLFLVNYTATIDVIYEMYTQM NAELNYKV
9376	39744	A	9436	1	1569	
9377	39745	A	9437	211	368	ERNLSQLQWDNPTTPPATRRPS HSSLRGEHAQ*GLLSFFERLST LSRFMPI
9378	39746	A	9438	1435	1703	
9379	39747	A	9439	1	913	MKNYNCWRRVFLFVVTPIPMG HIKHRQGPNGKQGRGQRDEQR MRKENRGHRKGCTWCGGGTE GTGWGKYEKSEVERGLVRYER KRRAYSGIQYAAAAALPTVYN QNLLTQSSIGAAGSQKEACAY AVMSLASRAPVYVSFDSEKAG DREVQRTMLELLNQLDGFQPN TQVKVIAATNRVDILDPALLRS GRIDRKIEFPMPNEEARVARIMQ IHSRKMNVSTDTTLVALQMAL NVYNGKQAPYASCHIFELYQE DNGFLLLEHTGFVSYDNPVSAQ AAIQSMNGFGIGMKRLKVQLK RSKNDSEKPY
9380	39748	A	9440	3	438	
9381	39749	A	9441	1	247	AIAAIDSDDSGSRQSEWFKWK GFTILDAIKNIYDSWEEVKMST LTEVWKKLPIILMDSFDFNEE VTVDVWECTVLQTI

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9382	39750	A	9442	93	726	TSLGLSLCPRQCKRCPHLSLQQ EEDPANLEVDHDFQDKVWP HLALRVPAFETLKVQSAWAGY YDYNTFDQNGVVGPHPLVVN MYFATAFSGHGLQQAPEGIGRA VAEMVLKGRFQTIDLSPLFLTR FYLGEKIQENNIILRHVCSGIG LPLACNPWLCLKSLVCWLPPIFP KVLCPGLLSPPVSSSSQAGHW HPIWAGQGTGSEAEQG
9383	39751	A	9443	1	849	MSGALDVLQMKEEDVLKFHA AGTHLGGTNLDFQMEQYIYKR KSDGIYIINLKRTWEKFLAAR AVVAIENPADVSVISSGNTGQR AVLKFAAATGATPIAGHFTPGT FTNQIAAFREPRLLVVTDPRA DHQPLTESSYVNLPTIALCNTDS PLRYVD/ICNNKGAHS/DPEEIE KEEQAAA EKA VTKEEFQGEWT APAEFTATQPEVADLSEGVQV PSVPIQFPPTDDWSTQPATENW SAAPTAQATEWKMQQQSTILE AESSPHQTPNLPAWRSRTSQPPE
9384	39752	A	9444	1	1575	
9385	39753	A	9445	1	2325	
9386	39754	A	9446	1	1149	
9387	39755	A	9447	85	1041	REIVTMSGALDVLQMKEEDVL KFLAAIGTHLGGTNLDFQMEQ YIYKRKSDGIYIINLKRTWEKL LLAAVRAIVAIENPADVSVISSQE ILGQKGAESFAAATGATPICW ARFTPWNLSTLTIQGSPPSGEPR AFLLVTDPOGLNHQPSHGGNL NV*PTLPLALVNPDSPLRRYVD IAIPCNNQGSSSLQWGLMWW/M LASGSFCAMRGTSIREHPWEV MPDLYFYRDPPEIEKEEPCGCL RSQVTKEEFQGEWTAPAEFTV VTQPEVADWSEGVQVPSVPIQ QFP/TTEDWSAQATEDWSAAP TAQATEWVGATTDS

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9388	39756	A	9448	1	762	MGKVKVGVNGFGCIGRLVIRT ACNSGKVDIIAINDPFIDLSYMV YMFQYDPTHGKFHGTVKAENG KLIVINGNPITIFQEPDPSKIKWG DAGTEYVMESTGIFTMENAG AHLQWGAKRPQGLQNIIPATT/ GA AKAVRKVIPELNGKLTGMA LRVPTANVSVDLTYHLEKPA KYDDIKKVKVQASEGPLKGILG YTG HQVVSSDFNSDTHSSTFNA GAGTALNDHFVKLISWYDNEF GYNNRVVDLMAHMASKE
9389	39757	A	9449	93	660	DTMGKVKVGVNGFGRIGRLVT RAVAFNSGKVDIVAINDPFIDLN YMVYMFQYDSTHGKFHGTVK AENGKLVINGNPITIFQERDPSK IKWGDAGAEIYVVVESTG/VFTT MEK/ALGAHLQGGSQKHSSL APSCLMPPMFVMGVNHEKDD NSLKHISNASCCTTNCLAPLAK/ VIHDTLVSGEGLKDHRLAP
9390	39758	C	9450	554	715	
9391	39759	A	9451	193	472	RRVGWVRRPQFQQSRCSHGPN QGSAPWLNPTGAFGKETDLLA/ DDSLVSIFGKRRL/KRFSMVG/D RMASKNALNAQPDGPGLTCSL APNIISQL
9392	39760	A	9452	1	864	GTRMGLAGVCALRRSAGIYLV GGAG/WSVLAPRAAAARRCSE GEWASGGVRSFSRAAAAMAPI KVGDAIPAVEVIFEGEPGNKVK PGKSLFKGKKGVLFGVPGGPPP LGCSKTHLAKGLWEQG*RLCK AKGSRVVVLF*VVNDALCDW AQWQAPQGGKARFGLLAESP LGPFGK\ETDLL\LD\ESLVSHLL GIRRLK\RFS\MVVQDGI\VKAL\ NVEPDGTGLHLAAWAPNIIFTA LEALGPDLLPPPPYSSPCPALC LGPLQFGNVGQISAINTLWVLR PKQKKKKKS
9393	39761	A	9453	1	239	QCCSGGTHGNPAIGDRIMQKQI LPWAPAQMKIRFMAPPERKYS VWIAAPILASLSTSSRMWISKQE YDESGPSIVHRKCF

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9394	39762	A	9454	2	801	ASAPRAQSLAFADPPPVHTRRQ LTMDDDIAALVVDNGSGMCKA GFAGDDAPRAVFPISVGRPRHQ GVMVGMGQKDSYVGDEAQSK RGILTLKYPIEHGIVTNWDDME KIWHHTFYNELRVAPEEHPVLL TEAPLNPKANREKMTQIMFETF NTPAMYVAIQAVLSLYASGRTT GIVMDSGDGVTHTVPIYEGYAL PHAILRLDLAGRDLTDYLMKIL TERGYSFTTTAEREIVRDIK/EE AVLRRPGLRARDGHG/VASSSL EKSYELPDGQVITIGNERFRCPE ALFQPSFLG/MESCGIHETTFNSI MKCDVDIRKDLYANTVLSGGT HQFPLPCRPGC*KKITALEPIAT MKIRIIA/VPEAQSTPLWNRGAP ILASLVHLPKMW/DQKSREYD ESGPLPFVHRK/CFQLLPGEELR
9395	39763	A	9455	3	108	
9396	39764	A	9456	1	1430	MKFLIFAFFGGVHLLSLCSGKAI CKNGISKRTFEEIKEEIASCGDV AKAIINLA VYGKAQNRSYERLA LLVDTVGPRLSGSKNLEKAIQI MYQNLQQDGLKVVHLEPVRI HWERGEESA/VMLEPRIHKIAIL GLGSSIGTPPEGITA/EVLVVTST DELQRRASEARGKIVVYNQPYI NYSRTVQYRTQGA/VEAAKVGA LASLIRSVASFISYSPHTGIEYQ DGVPKIPTACITVEDAEMMSRM ASHGKIVIQLMGAKTYPDTD SFNTVAEITGSKYPEQVVLVSG HLDSWDVGGAMDGGGAFIS WEALSLIKDLGLRPKRTLRLVL WTAEQGGVGAFQYYQLHKV NISNYSLVMESDAGTFLPTGLQ FTGSEKARAIMEEVMSLL/QPL NITQVLSHGEGTDINFWIQAG/V PGA/SLDDLYKYFFFHHSHGD TMTVHGQTQMECLLLFWAV VSYVIVADME/EMLPRS
9397	39765	A	9457	2	631	
9398	39766	A	9458	1	406	PTVCERELCVFAQTLLGVMNE AADEIATGAQVVLLVSMCRS ALESPRKVVFEPYPSVDPNDP QMLAFNPRQLKFMHTPHQFLL LSPPAKESNFRAAKKLFGSTF AF/HLHGAMYSGGIYLSPMSSIS FGYSA
9399	39767	A	9459	7	257	

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9400	39768	A	9460	2	649	
9401	39769	B	9461	50	607	
9402	39770	A	9462	627	1665	EQAGQALSTAPVGDGHELLCE VGSSSFRDVLGTSMGLCGGY/G GAS/GMGGITAVTVNQNVLSPL NLEVDPMQGMHTQKEQVK TLNKSASFVDKVLFEQQNKM LETNWSLLQQQKPAQSNMDN MFESYINLLGQLEILGQEKLK LEAELGNMQGLCMFFVKEDFK KKYEDEINKPTMENEFVLICK DVEDDAYMNKVELEFRLEGLTD EINFLRLYEEEEPELQSQILDTS VVLSDMNSRSLDMSIIAEIKY EELQTLAGKHWDRLTKTKIS EMNRNISRLQAEIEGLPQRPEQ RASLESVIADAEQRGELAICKDA KTKLSELEAAQRAKQDMAHG
9403	39771	A	9463	2237	2656	LSCSLFSGFAGTRFFGTSILRLPL MYCPVNDSGTALIASGSPSATS PP*TPAPGPMISITWSAARIASSS CSTTITVLPRSRRWISVFNRRSL SRWCRPIDGSSSTYITPTRPAPI WLAARRIRASPPESVSAERESV
9404	39772	A	9464	3	2790	EFVLIKKDIVDEAYINKVELES LEGLTDEINFLRLYEEIERELQ SWISDTSVVLSDMNSRSLDMNS VIAEVKAQYEEIANRSQAEAES MYQIKDEELQSLAGKHGDNLR CTKTKISEMNRNISRLQAEENG LKGQRAFLEAAIADAEQCCELA IKDANAKL/SELEALQRAKQD MAWQLRLMNVRLALDIEIATY KKLLEGEESRLESQMNMSTHT KTTSGYASGLSSACGGTSPGL SYGLGASSFSRT

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, /-possible nucleotide insertion)
9405	39773	A	9465	2	1516	SAIPTSTPASTMSIRVTQKSYKV STSGPRAFSSRYTSGPGSRISSS SFSRVGSSNFRGLGGGYGGAS GMGGITAVTNQSLLSPLVLE VDPNIQAVRTQEKEIKTLNNK FASFDKVRFLEQQNKMLETK WSLLQQQKTARSNMDNMFESY INNLRRLQLETNLGQEKLETK LIGNMQGLVEDFKNKYEDEINK RTEMENEFVLKKDQVDVDEAY MNKVEESRLEGLTDEINFRLR QLYEEIERELQSQISDTSVVL SM DNSRSLDMSIIAEVKAQYEDI ANRSRAEAESEMYQIKYEELQSL AGKHGDDLRRKT*DLR*TRN ISRLQAEIEGLKGQRASUEAAI ADAEQRGELAIKANDANAKLSE LEAALQRAKQDMARHLR*VTR ELD*TFKLGPGTFEATYRKLL EGEESRL/ESGMQNSIHTKTT GGYAGGLSSAYGGLTSPGLSYS LGSSVFGSAGSSFSRSTSSRAV VVKKJETRDGKLVSSESDVLPK
9406	39774	A	9466	1410	3244	PPCRSRHPRLRGEQKPRPSQP PFAVPAAPAPQV*PQMIDLCNV GFQFYRSLHFHGGKPKVQEPIK PSAVWPQPTPTPLPTPYPPYYPK VHPGLMFPFFVPSSPFPFSRHT FLPKQPPEPLPRKAEPQSEET KQKVERVDVNVQIDDSYVVDV GGSQKRWQCPTCEKSYTSKYN LVTHILGHSGIKPHACTHCGKL FKQLSHLHTHMLTHQGTRPHK CQVCHKAFTQTSHLKRHHMQ HSEVKPHNCRVCGRGFAYPSEL KAHEAKHASGRENICVECGLDF PTLAQLKRHLTTHRGPIQVNC ECDKTFQYPSQLQNHMMKHK DIRPYICSECGMEFVQPHHLKQ HSLTHKVLRLWWGGRGLGK RSGALSRLGSRTPVPLCTLPR GGLQGEIQAQSESEFSPVCNHSP GVIAELKQGPSGVPEILPQLNS CPTKGTCRYYPEGSRLPSAGTI NKGPRLGFSRKGDHSLTSGAPL YVGKESKVHFRAYEDPGVKEH KCGICGREFTLLANMKRHLVLIH TNIRAYQCHLCYKSFVOKQTLK AHMIVHSDVKPFKCKLCGKEF NRMHNLMGHMLA/RNGKPLK RLYCPSKFTLKGNLTRHMKVK

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9407	39775	A	9467	1	1309	MRIQQLCGHLWQQKISLELM SSFHKLKMKMGCGVTPDSKEL LKYLSYCNSTPLTQSPQEA PVS DVPLPVSKCSHCSVQLIMCLRP EHIIPNSPGIKGGQIKQHEEKHPT LLHLDASHLMTCFVVEMLTYV LIAGFKSLCSIHSYPPRTLRLHC EKVWDSLENERRHEKRGAN FLHRLPAEHQWGVQSSNIMAG LSARLQFLFHRFPFVFELTAN GCPTKGLQGEIQAQSEFSPVC NHSPGVQIAELKQGPSGVPEILP QLNSCPTKGTCTRYYPEGSRLPS AGTINKGPRLGFSRKGDSHLS TS GAPLYVGKESKVHFRAYEDPG VKEHKCGIGREFTLLANMKR HVLHTNIRAYQCHLCYKSFVQ KQTLKAHMIVHSDVKPFKCKK SFTAQGNAPQEDAGSQGE/PV CLL/CPNWGQQRKGRAWRLRH
9408	39776	A	9468	3	4804	KRLNIQKTLFVAFSEAVWMQ PSVLLDDLDLIAGLPAVPEHE HSPDAVQSQRLAHALNDMIKE FISMGSVALIATSQSQQSLHPL LVSAQGVHIFQCVQHIPPNQE QRCEILCNVIKKNLDCDINKFT DLDLQHVAKETGGFVARDFTV LVDRAIHSRLSRQSISTREKLV L TTLDQKALRGFLPASLRVNL HKPRDLGWDKIGGLHEVRQIL MDTIQLPAKYPFLFANLPIRQRT GILLYGPPGTGKTL
9409	39777	A	9469	2	1844	
9410	39778	A	9470	3	772	VPNPYTLTSQIPEEAEWFTVLD LKDVFFCIPVHPDSQFLAFEDP LNPMSQLTCTVLPQGFDRSPHL FGQALAQDLSQLSYLDTLVQ YVDDLLAACSETLCHQATQA LLNFLATCGYKVSKEAQLCS QQVKYLGKLKSKGTALSECI QPILAYPHLKTLLQLREFLGITG FCRIW/NFQALLLERPVQLCTC ATLNPVTFLPDNEEEYNCQHI SQTYATRGDILLEVPLTDPDLNL YTDGSSFVEKGPQKA

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9411	39779	A	9471	1	6504	MWGSDDL A G A G G G G A A V T V A F T N A R D C F L H L P R R L V A Q L H L L Q N Q A I E V V W S H Q P A F L S W V E G R H F S D Q G E N V A E I N R Q V G Q K L G L S N G G Q E L H A V S L E Q H L L D Q I R I V F P K A I F P V W V D Q Q T Y I F I Q I V A L I P A A S Y G R L E T D T K L L I Q P K T R R A K E N T F S K A D A E Y K K L H S Y G R D Q K G M M K E L Q T K L Q S N T V G I T E S N E N E S I P V D S S S V A S L W T M I G S I F S F Q S E K K Q E T S W G L T E I N A F K N M Q S K V V P L
9412	39780	A	9472	2	1658	
9413	39781	A	9473	1	617	M C S W T A P V S S I L T H P N W P V L R M A G L T G C A S V A M K K I E H N C Q Q V I A Q T F T T R G D L L E I P L T D P G L N L Y T D G S S F V E K G L R K A G Y A V V S D N G I L E S N P L T P G T S A Q L A E L I A L T W A P E L E E G K R V K R K K A I W R E R E F L T S E G T P I K H Q E A I R R L L L A V Q K P K E V A V L H C R G H / Q E G N C Q V D I E A K R A T R S Q V A R G H K I C D F P S C S Y R
9414	39782	C	9474	587	715	
9415	39783	A	9475	96	269	
9416	39784	A	9476	1	1398	
9417	39785	B	9477	1	1152	
9418	39786	A	9478	3	241	
9419	39787	C	9479	202	534	
9420	39788	A	9480	108	199	
9421	39789	A	9481	125	352	
9422	39790	A	9482	2	325	R R S L A L S P R P D C G L Q W H N L G S L Q A P L P G F T P F S C L S L P S S W D Y R R P P P R P A N F L Y F L V E T G F H L V S Q / S G L D L L T S I D P P A S A S Q S A G I T G V S H R A R P Q N L F F K V R C P E
9423	39791	A	9483	184	383	L G L Q W R N L G S L Q A P L P G F T P F S I C L S L P S S W D Y R R P Q P R P A N F F F F V F F L V K T G F H L V S Q G I G L D L L T S * S H P A S A F Q S A G I I G V S H R R P A I T L Q F
9424	39792	A	9484	1	416	M G R S F L G G G S T L M L L G G G Q L H I L T P S F P S W T E T G N Y T C E F C G K Q Y K Y Y T P Y Q E H V A L H A P I R N S A K D D H R S A I L S E N R G S H Q / S H A S C H H H Y H C H Y Y H Q H H C L H H H S Y H I I I H C H I I H R G M W R N W D T V L W I H Q T P Q V Q D

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9425	39793	A	9485	3	534	GRRQRRSRHLLHRRQDRQSA PGSGKIPQKVKVLADEDDDD DDEEDDFDEETEEAPVKKSIQ DTPARNAQKSDQNGKVKSPSS TPRSKGQESFKQEKTPKPKG PRSVEDIKTKMQASIEKAHGT VIGTTVGNIPLRGGNQEKFHGA GVWFGKFGVQRKIQQKQLQKD VTSGS
9426	39794	B	9486	44	924	
9427	39795	B	9487	41	2197	
9428	39796	B	9488	67	1507	
9429	39797	A	9489	134	311	
9430	39798	A	9490	5	1545	EKIQINTI/KNDKGILPLDPTEIQI TIREYYEHL YAHKLENLEEIDK FLDIYTLPRLNQEELESNRKPN TACSNLRDGSLLLDGHHGSSIQ AAIEVVGAGSVATKGRGRQDD TDPNSRYHRPPYSQEEKEQCITL LLSWCLGDSQGPQCRPQLSLQE LRREFTVSLHLARKLLSEVRGQ AHRFVSPNNAAGAGDGGQTPNPF WPPLTDLAPQAESHLPGVNLYL LPLGEQLPDVSLTFQAWRRLSV KCTAVRAYQITRVVETSSCRL HVKGASNASTRSPKEVTQGT NKSERRTRETQRAIRERNMAGC CTCATDVLVTLQSLMEGLALQ PQTRALLGASIKASCAVTII LMSENLGKCSKKSEGMVRRY AKHKKQEIKPYQKSPSLERG QEEKKVGREDREGENQYLYG PSNISEARNRLPECGRMGLGYV ARLFLGDRSSTPSFASYDPSSL VTYGHRRSCRVS DIRVPLRPN VGGPCKGTGIDLQCEERKNEE
9431	39799	A	9491	32	2123	
9432	39800	A	9492	1	911	MSTLKLGIKIIISVMIASEFILEE RIKTGLNAAKHCF AAPSQAASH TISRPIPMPIRSASACSTPHTPQ DSL TGVGGDVQEAF AQSSRRN LRNDLLVAADSI NTMSSLVKE LNSEVGSETESNV DSEFARTQF EDLVSPSTSEKAFLAQIHARKP GYIHS GATTSTMRGDMVTGIDA NPYVQPEDENYENDSVRQLEN ELQMEEY LKQKLQDEAYQMPL VPTKKEIHMEDFLSSLPEG AIAQ CPRTFIPDCRRKGASYSQTDDDES NMKTGDDGEP CGHTEEDSSSL AAASPKRGTTTPSSS

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9433	39801	A	9493	2	2233	
9434	39802	C	9494	477	737	
9435	39803	A	9495	2	746	GQATHFMAKEV*QWAHAHGHIH WSYRVPHHPEAAAGLIEWWDCL LKSRLLQCQLGDNTLQAWGKVL QKAVYALNQCIYGTVPIDRI HGSRNQRVEVEVEVAPLTITPS DPLAKFLLPGLTTLCSAGLQVL VPEGGMPLPGDTTTTPLNRKLR LPPGHFGLFLPLSKQAKMRVTA LAVVIDLDYQDEISLPLHNGDK EEYARSTGDPLERLLVLPCEVIE VNGKLQHHNLGRTTNGPDPLG MKVWVSPPG
9436	39804	A	9496	70	532	HVALLMPLQNSRFSGYGFAYP ARNTFSTTIHGLKECLIHGHI PSSIASDQGRFLPKFV/RKWAH AHGIIHWSYHVPHYPEAASP/HS DPLAKFLLPVPTTLCSAGLAVL VPEGGMPLPGDATMIPNLSSR SHLGMPPTSLKVVVMCSKDKY
9437	39805	A	9497	51	408	CVPEPTPSLGFQT/HPAAHAPG AQAPGSAH/DRLSSAGPGSRAA PRAPWRPWTIGYSESQPTVL/RP GQPWPGRGVSGSSAPSPSALR GPPRSSRPSCTTW/WCLWCRH RDLGRDINFIL
9438	39806	A	9498	3	618	SSCAFHSRRSPSRCHTVRRSTA PCAAS*HSSRAPKRHWALPGSS G*S/WRETPSTHW*P*TLPRWRT ALRPSQ*PRPRVFRVRKPCSSRP PTITRCALASQA*SCAA'PTSSLA QRKSSSRPRRTATTWGTAARRSR AHAVPAGRSPAPSPAPPQAP RAWSAAPASPSRLSSAGRGRO AAPRAPWRLRGPSPRSCTCT WWCP
9439	39807	B	9499	215	293	
9440	39808	C	9500	1	1170	
9441	39809	C	9501	25	481	
9442	39810	A	9502	27	265	
9443	39811	A	9503	2	326	GRVGGRVGSDLGRGDMAKRT KKVGIVGKYTRYGA/SRVRK MVKKIEISQHAKYTCF/CGKT KMKRRAVGIWCCGSCMKTVA GGAWTYNTTSVIVKSAIRRL KELKDDQ

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9444	39812	A	9504	2	1125	RVGRPLPPRPPTHPRRKPLPPNN VTGKPGSAGHSSGPITTPPLRST PRPTGTPLERIEDIKQPTVPAS GEELENITDFSSSPTRTDPLGK PRFKGPHVRYIQKPDNSPCSITD SVKRFPKEEATEGNATSPQNP PTNLTVVTVEGCPSEVILDWEK PLNDTVTEYEVISRENGFSFGK NKSQMTNQTFSTVENLKPNTS YEFQVKPKNPLGEGPVSNVAF STESADPRVSEPVSAGRDAIWT ERPFNSDSYSECKGKQYVKRT WYKKFVGVLQCNLSRYKIYLS DFLTGKFYNGDQGRGHGEDHC QFVDSFLDGRGTQQQLTSDQLPI KEGYFRAVRQEPVQFGGIGGHT QINYVQWYECGTTIPGKW
9445	39813	A	9505	2	385	REAGSGGNDNFARRRNFSGRG G\FGGSRGGVWVWVAVGDGY NGFGINDGSGNFG\GGGSY\NDF WENTNKSGLQNFPGHEGGEIFG GQKLLAPYGGWRPNTFAKPTK PQGG\YGG\SSSS\SSYGGKWPEDF
9446	39814	A	9506	945	2313	TRVLLESRAGSQSQSEGEASWQ RGYARPSCQAAISFPEHRRALR ALWAGDCRVADAGPGSSSTPP SPPSLPKTSVSLGFLCFKKSLLAA SCASGRERQLEA*VWASQPLSP TQWSEGLGVVWASQPLSPT QWSEGGQ/PGGPSVGISTSLTYPV EGRT/GWGPECYVFCMLHRLPE QHDCTFDHMGGRGREAIMKM VKLDRKVGRSCQRIJEGGQED DVVASILVSMQPHSPRTSPHLP YSKFDFSSCNCARQGWKEMG ACVQRPSAVLGGTRPVSVQAK QPLPCFLLGASALGSCGTGLGV KDRDIDRIVVMSVMKILRGNQR PSGDEQARGQRAREGGLGLGV RRACREQWAVLCPLVHRNWV CVSSFLIASQSNSPQQQHNCY ANNSPQQEEGMVGRQAETFL GGVRNRKPWVGVRGLQGS QQHIQGA VSSPSPPKKGVS KRE
9447	39815	A	9507	3	684	

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9448	39816	A	9508	15	513	RIRLEGLWGSSKTMNLCSKCFADFQKKQPDSDSAPSTNSQSDFSEETSDNNNTSITPTLSPSQPLPTELVNTSPSKEEYSQSENEASPVKRPRLLENTERSEETSRSKQKSRRCFQCQTKLELVQQELGIMCRCGYVFCMLHRLPEQHDCTFDPHGAVAGR
9449	39817	A	9509	818	1455	SDYITRDGASFTKALLTWKNPVPNFFWKDFTKLWGEVIRSTMWKT/DQSPSAAWGGFGAQQPQQGAPPVIPPNNQAGYGMASYQTQILPSPHILAVFMLPERGPNPDPKRGFLDLARKNLGNWVSTITFLSRFGVQVLQEFVVPGMTPLLRPLELPMHFNPHFSTALASLIADELYLLPQLSVSQMGESFPSPDMMMAICAQASTNRLWMP
9450	39818	A	9510	1	1132	MMEDDGGQRTLYVGNLSRDVT EVLILQLFSQIGPKCKSMITEHTSNDPYCFVEFYEHRDAAAAL AAMNGRKILGKEVKVNWATTP SSQKKDTSNHFHVFGDLSPEI TTEDIKSAFAPFGKISDARVVK DMATGKSKGYGFVSFYNKLDA ENAIVHMGQWLGGGRQIRTNW ATRKPPAPKSTQENNTKQLRFE DVVNQSSPKNCTVYCGGIASGL TDQLMRQTFSPFGQIMEIRVFPE KGYSFVRFSTHESAHAIVSVN GTTIEGHVVVKYWGKESPDMT KNFQQVDYSQWQWSQVLGN PKPSDIRYMANGWQVPPYELY GQPWNQQAQGVDDQSPSAAWMSGFGA/QPP/QGAPPVIPPNNQAGYGMASYQTQ
9451	39819	B	9511	1	1212	
9452	39820	A	9512	1	1032	

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9453	39821	A	9513	17	976	SGRP/GGPGGPGMGKPRCF/RGE VFGIVIRGPGFPFGRGRGRVGR GARGGKGPRIKGLGCPSTKLGL RLVKDH*RSKFPWRRSIYSYSG PLKESEIDFGLGGLLSKDEVFE RLCQVQEPEPVPQGRHQGSRHF VATGNVQWPTVGSGLKCSQE /VWPTAHPVGPILAKLLHSSPC AEGYWGEQSIGKAP/HTVPCQ/ VWTGRGCSVLVRPHPWHPGRS GIVSAPVAIKLLMMAGIDDCY TSARGCTATLGNFAKATFDAI SKTYSYLTPLWKETVFTKSPY QEFTDHLVKTHTRVSVQQTQA PAVAYNIGLVYKKNKVN
9454	39822	A	9514	1	866	
9455	39823	A	9515	1	1793	MAAAAVSGLGRAGWRLLQL RCLPVARCRQALVPRAFHASA VGLRSSDEKQKQPPNFSQOHS ETQGAEKDPDESSHSPPRYTDQ GEEEEEDYESEQLQHRILTA LEFVPAHGWTAIAAEGAQSLG LSSAAASMGKDGSELILHFVT QCNTLRLTRVLEEEQKLVQLGQ AEKRKTDQFLRDAVETRLRMLI PYIEHWPRALSILMLPHNIPSSL SLLTSMVDDMWHYAGDQSTD FNWYTRRAMLAAYNTTEL VM MQDSSPDFEDTWRFLNRVND AMNMGHTAKQVKSTGEALVQ GLMGAAVTSRPRRGGWVPLG EMPYANQPTVRITELTDENVKF IIENTDLAVANSIRRVFAIEVP AIDWVQIDANSSVLHDEFIAHR LGLIPLISDDIVDKLQYSRDCTC EEFCPECSVEFTLDVRCNEDQT RHVTSRDLISNSPRVIPVTSRNR DNDPN DYVEQDDILIVKLRKGQ ELRLRAYAKKGFGEHAKWNP TAGVAFYEYDPDNALRHTVYP KPEEWPKSEYSEDEDESQAP YDPNGKPERFYNNVSCGSLRP ETIVLSALSGLKKKLSDLQTQLS HEIQSDVLTIN
9456	39824	A	9516	3	176	FFFFFAETNSK*ITYQNIHIMVEI FQNSIFWDLTYTKDKQIRGQEA RREKRGLGRPL
9457	39825	A	9517	1485	1679	RVGDAGHDDPGKPGPPGAGHR PEG*TAHSLRAGLPACRAEPA GPGRAREGSKAPGHCAELLQ

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9458	39826	A	9518	1	232	FFFETESCVAQAGVQWCDLG SLQTLPTG/SSRHPASAFRVARI TGARYHVRLLFVFLVQGLHHL GQADFLLTS
9459	39827	A	9519	1	2408	GTLVTKVAPVSAAPPKVSSGPRL PAPQIVAVKAPNNTTTIQFANLQ LPPTVLIKSNSGPLMLVSPQQT VTRAETTSNITSRPAVPANPQT VKICTVPNSSQLIKKVAVTPV KKLAQIGTIVVITVPKPSSVQS VAVPTSVVTVTPGKPLNTVTTL KPSSSLGASSTPSNEPNLKAENSA AVQINLSPTMLENVKKCKNFLA MLIKLACSGSQSPMGQNVKK LVEQLLDAKIEAEFTRKLYVE LKSSPQPHLVFLKKSVVALRQ LLPNSQSFQQCVQQTSSDMVI ATCTTTVTSPPVTTTVSSSQSE KSHVSGATAPRTSVSVQTLNPLA GPVGAKAGVVTLHSGVPTAAT GGTTAGTGLLQTSKPLVTSVAN TVTTVSLQPEKPVVSGTAVTSL LPAVTFGETSGAAICLPSVKPV VSFCWDHICKPVIGTPVQIKLA QPGPVLSQAPAGIPTGSSSKQLFS LFHVQQPSGGNEKQVTTISHS STLTIQKCGQKTMVNTIPTSQ FPPASILKQITLPGNKILSLQASP TQKNRIKENVTSCFRDEDDIND VTSMAGVNLNEENACILATNSE LVGTLIQSCKDEPFLFIGALQKR ILDIGKKHDITELNSDANLISQ ATQERLRLGLEKLTIAQHRMT TYKASENYILCSDTRSQLKFL KLDQLEKQRKDLEREMLLKA AKSRSNKEDPEQLRLKQAKE
9460	39828	A	9520	1	637	MLSNVVRGRKLPNGTWAHDL VTPPTASLLLLTEPAMPSPAFC HSILIVTKGGVKRTRVPPPNSS GARTGNPLKVKHISFKTGDELIF LDPHITQTTFVDTEENGTDNDQT FHCLQSPQRMMNINLDPSPAIG FFCKEEKDFDNWCSLVQKEILK ENLRMFELVQKHPSHWPPFVPP AKPIEVTTTGAEFNDSTEQLAEF DLAEEDFEILSV
9461	39829	A	9521	3	176	
9462	39830	B	9522	1	792	

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9463	39831	A	9523	2	486	NGHVGLGVKCSKEVATAIRGAI ILAKLSIVPVRGYSWGNKIGKP HTVPCKVTGRGCVLVRLLPAP RGTVISAPVVPKLLMMAGIDD CYTSARGCTATLGNFAKATFD AISKTYSLTPLLKE\TVFTKS P*QELTDHLVKTHTRVSVQRT QAPAVATT
9464	39832	B	9524	1	2991	
9465	39833	A	9525	3	263	KHENWSTARQSLHACSRVTWQ NRLRLSNKWMPSHVLCLLP/S MTLQPANLSSLLITPPEFGPKIA SPICTSCSVNFRRLISPFSHC
9466	39834	A	9526	1022	1201	
9467	39835	C	9527	1	924	
9468	39836	A	9528	2	837	WKNCLEKRSM\TMHRILES*D* RQE/ILERHDAKYHSPKAEKQ MKHKAGSQIVKKEEAKLALAL EGFCRFRNHHQTGFSPAGATQR GPLVAILSGPGGEGQSAVARLT GEKKNHPGAQYANRLSPRVGR FINAAGTTGFTGKRAWPPFRL FLPHKGFADWGPTINQDFRLLG QPSVARFLNFSQGPAGEGQSAV ARLPGHFFITQPYPLPGYAAAAG MQALARRRRPLMFDSLSSNFCH SSAYYHLFRRSNQAFKGTNNCL KKITPRPATHRSTVVIH
9469	39837	A	9529	3	1137	APAPSPVSGSGCCLSHMFFHPPS RANRAFDVYAPMDEIQNAEIN SQVRRYLEGLTDEIDVRNPSVT TMLSQGPSPGHTPTHALLAS EPHVNGCKTVSTVHEDYSGSSE SSNDESDSED\TSDSSIPRNL QSVVAVPKNSTLPMETSPCSS RSSQSYRHYSDHWEDERLESRR HLYEKFESIASKACPQTDKFFL HKGTEKNPEISFTQSSRKQIDNR LPELSHPQSDGVDS\TSHTDVKS DPLGHPNSEETVKAKIPSRQQE ELPIYSSDFEDVPNKSWQQTTF QNRPD\SRGLKTEL\SFSSSC\IPH VDGLHSSEELRNLGWDFSQEK STTYQQPDSSYGACGGHKYQQ NAEQYGGTRDYWQANGLLGS
9470	39838	A	9530	1	1857	

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9471	39839	A	9531	1	989	MEDWKVRGHQEKTLAEVQSF SCSERETTLVLLRSPAVPQLLL HGLCGPDLSTKAAQCHFKAIW QSLGNTLGAUSDQATPGHVKS LPPGALISRQGRGQFCSDAVF LLHDSPELPSSLPHGASLPASS DKQAEQTLWGA VGS VQCTSIT ACPRDLED RPHLTEHPAGVHC GQNPCCHLIFTLYSKSLPLDLA CRIWDVFCRDGEEFLFKTALGI LKLFE DILTKMDFIHMAQFLTIR LPEDLP AEELFGPSIATIQMQSR NKKWAQEPGHELEWPD RSFRP RVLACPMGSREHRLQPA CSGST GQGHTKALFPETCCQSP IQDA
9472	39840	A	9532	2013	2270	
9473	39841	A	9533	3	744	
9474	39842	A	9534	190	991	SVLSNKQNHCSQTAPPPPPAA SGSRGWVWGLFWGLAAILEGS TGADWSQLPHSCCPSLLVPHVL SVVPLRPPHRDFPVEDVFTLPV YFSSDWLNEFDALD VDDYRF VYAGPAGSWSPFHADIFRSFSW SVNVCGRKKWLLFP PGQEEAL RDRHGNLPYDVTSPALCDTHL HPRNQLAGPPEITQEAGEMVF VPSGWHHQVHNLD DTTISINHN WVNGFNLANMWRFLQQELCA VQEEVSEWRDMPDWHHHCQ VIMRSCSGIKL
9475	39843	A	9535	1	885	MKRRAVMGPQVQAWKALDL WESSQVMEGKAVVPMGRNPM MRKATQGQLENSPALEKLLPPL QGNVGFATKEDLTEVRDLLL ANKVPAATRAGAIGPCEVTVPA QNTGLGPEKISFFQALGHTTKIS RGTTILSDVQLIKTGDRVGAS EATLLNTPNISPFSGFLVIQQVF NNGSIYNPEVLDITEETLYSGFL EGVRNVASCLQTGYPPVASVP PSII/NGYKGCLALSVETDYTFPP AEKIKTFLADPSAFVAAA PVAT TATAAPAAAAA PTKFENEESSE LDEDMGFGLFD

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9476	39844	A	9536	65	988	RTAVMPREDRATWKSNYFLKII QLLDDYPKCFIVGADNVGSKQ MQQIRMSLRGKAVVLMGKNT MMRKAIRGHLENNPALEKLLP HIRGNVGVFTKEDLTEIRDML LANKVPAARAGAIAPCEVTVP AQNTGLGPEKTSFFQALGITT SRGTIEILSDVQLIKTGDKVGAS EATLLNMLNISPFSGLVIIQVVF DNGSIYNPEVLDITEETLHSRF LEGVRNVASVCLQIGYPTVAS VPHSHINGYKRVLALSVETDYTE PLAEKVKAFLADPSAFVAAAPV AAATTAAPAAAAAPAKVEAKE
9477	39845	A	9537	1	993	MREIALTQTQCCKGKIGAKVGI RGSEVPAPAYWVAREDVSGSGS GLGGGWYVPCAVLVLDLEPVT MDSLRSRGPGLIFRPTTSSLKLE NADKTFICIDNEALYDIYSRTLK LPPTYGDMNHLLSATMSGVT MCLGFPQQLNADLQKLSVNMV PFPRLHFFMPGFAPLTSRGSQH YQALTVaelTQMIFYAKNMM AARDPRHGRYLTAAlFQGRM PMREVDEQMFNIQDKNSSYFA DWFPDNVKTAVCDIPPRG/LKM SGSFIGNNAIQELFQCVSEQF TAMFRRA/FLHWYTGEG/MDE MEFTAEASNMDLVSEYQQY QDATAQGGGG
9478	39846	A	9538	231	881	SSLGTVKGLSPFRLHWMVPVS YSSVTTRYHRAGAEEGKDRII FVTKKDHETPSSAELVADDPND PYEEHGLILPNGNINWNCPLG GMASGPCGEQKSAFSCFHYST EEIKGSDCVDQFRAMQECMHK YPDLYPQDEDEEEEREKKPAQ QAEETAPIEATATKEEEDQVNE GHKALSTSPFGVLLQKALSSP SKKVSFCCPVHNIQNNLF
9479	39847	A	9539	1	804	

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9480	39848	A	9540	2	3337	SSLLEKMTSSDKDFRFMATSDL MSELQKDSIQLEDSESRKVVK MLLRLLLEDKNGEVQNLAVKW LGVPLGAFHASLLHCLLPQLSS PRLAVRKRRAVGALGHATACS TDLFVELADHLLDRLPGRPVPT SPTAIRTLIQCLGSVGRQAGHRL GAHLDRLLVPLVEDFCNLDDDE LRESCQAFAFLRKCPKEMGP HVPNVVTLCLQYIKHDPNYYN DSDEDEEQMETEDSEFSEQESE DEYSDDDMSWKVRRAAA
9481	39849	B	9541	1	3178	
9482	39850	A	9542	190	284	LNAQPGRTRRLWPAEIRPPRRRL GKGGQQVSHHPPISCFYCECEE KRLCVNTHVWTK*T
9483	39851	A	9543	62	280	
9484	39852	A	9544	1	1452	
9485	39853	A	9545	2	998	ITAGATPEERVICFVEYYLTAFIH EGRKGALAKKPYNPIGETFHC SWEVPKDRVKPKRTASR/PLLP AVMNTQWMTLPKSYKLRFA EQVSHHPPISCFYCECEEKRLCV NTHVWTKSKFMGMSVGVSMI GEGVLRLLHEGEEYVFTLPSAY ARSILTIPWVELGGKVSINCAKT GYSATVIFHTKPFYGGKVHRVT AEVKHNPTNTIVCKAHGEWNG TLEFTYNNGETKVIDTTLPVY PKKIRPLEKQGPMEARNLWREV TRYMRLGDIDAAEQKRHLEE KQRVEERKRENLRTPWKPKYFI QEGDGGWGLQSPLESTLMGLEV
9486	39854	A	9546	12	740	HFFLYKKLIPFVLKNCMFHFSP VRGTVVTNDRWGAGSICKHGG FYTCSDRYNPGHLLPHKWENC MTIDKLSWGYRREAGISDYLT EELVQPLVETVFSAGNPLMDIG PHLDGTVSVVFEERLRQMGSW LKVNGEAIYETYTWRSQNDT VTPDVVWYTSKPKKLVYAIFLK WPTSGQLFLGHPKAILGATVEV KALLGHGQPLNWIFFGDKMGIM VELPQLTJHQMPCKGWGAWAL ALTNVI
9487	39855	B	9547	1	627	
9488	39856	B	9548	47	504	

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9489	39857	A	9549	2	379	VDLVREFIERQ/HAKNRYYYYH RQYRRVPDITECKEEDIMCMEY AEMQWKRDRYKVDQEIINIMQD RLKAFQQQSYRA TQQGHPQAA SGGGSWRPLLQIFSLA ASSASV RPGTSWQNCRRPPGPDILGKQ
9490	39858	B	9550	49	707	
9491	39859	A	9551	3	1162	
9492	39860	C	9552	342	581	
9493	39861	A	9553	3	513	LLPHKPLAGFFKAYLPSEPPRV YVSSFWPQ/EYKPDTHQELFLQ EEIS/LLEDLNQVIENRLENKI/A FIRQHAIRVRIHALLARGLDPF IGPRRDWLVPVAVTGAVAFGF VEGLDPSQEHPRFQGTQDNVSK DESTRKEQSVRLVCGGADDRK PRDLQILDRDRKGPFLVQ
9494	39862	A	9554	1	1365	
9495	39863	A	9555	771	1536	PRPLSLWSREAGKGVQDCYIDN SQLCRKCDLCTGSPQSLPPYAS IPPTSPSTIK/DPPSTQMV/QKET DKGVNNEPKSGNIPQLCRLQAV GGGEFGPARVRVPFSLSDLKQI KIDLKGFSDNPDGYIDVLQGLG QCFDLTWRDIMLLNQLTLPNE KSAVITAAREFGNLLYLSQLRH WPVTLQPSAVPTPSGTYDTKE CKIVQSVEMSMVMIAVMSVQ RQQGKQTQQQPLL VVVRSAEP AEESVPHKSSTRGAS
9496	39864	A	9556	220	249	P*N**PSTLTGTGSTTT*QIRM KVN*MGN/DS PQGKNTFKMYS GEFSPVRVHVPFSLSDLKQIKID LGKFSDDPDGYIDVLQ
9497	39865	A	9557	2	385	
9498	39866	A	9558	84	849	PRPLSLWSREAGKGVQDCYIDN SQLCRKCDLCTGSPQSLPPYAS IPPTSPSTIK/DPPSTQMV/QKET DKGVNNEPKSGNIPQLCRLQAV GGGEFGPARVRVPFSLSDLKQI KIDLKGFSDNPDGYIDVLQGLG QCFDLTWRDIMLLNQLTLPNE KSAVITAAREFGNLLYLSQLRH WPVTLQPSAVPTPSGTYDTKE CKIVQSVEMSMVMIAVMSVQ RQQGKQTQQQPLL VVVRSAEP AEESVPHKSSTRGAS
9499	39867	A	9559	66	197	RQWKG*KFVFQKM*DLGKYLQ RQLFCLSSLVQPPWPVPTEIYP
9500	39868	A	9560	1	2340	
9501	39869	B	9561	1	1776	

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9502	39870	A	9562	1	1349	
9503	39871	B	9563	107	769	
9504	39872	A	9564	329	2042	
9505	39873	A	9565	511	1631	HFGNHERTSKVMGNVPRKTKT PLRRILENWEQFDPTLRKKRLI FFCSAAWPEGSINYNTILQLD LFCRKKGKWEVP*VQTFSLRD NSQLCKKCDLCPTGSLQLPPY PSIATPSPLNKDPPSTQMVQKEI DKRVNSEPKSANIPQL*PLQAV GGREFGPARGVHPFSLPDLKQI KTDLGKFSNDPDGYIGVLQGLG QFFDLTWDRDIMSLLNQTLTPNE RSATITAARELGDLYWLSQVN DRMTTEERERFPTGQAVPSAD PH*DESEHGDWCCRHLCTCVL EGLRKRTRKAVNFSVMSTVTQ GKEENPTAFLERLREALRKHTS LSPDSIEGQLILKIFITRSAADI RKQTSKVHLRPGAKLKTPY
9506	39874	A	9566	15	178	
9507	39875	A	9567	3	826	RQLGTRNFLNGTKAKAFELSYL EKVPEGKDTVHKQSLHHVGT MGGENFPDSSDLYSEIGAITRSA KDDFDQLQDNLQCMERRCIAS WDHLKAIKHEMKPLLKQKMS ELLKDCAERIIILKIVHTRIINRF HSFLFMGHPPIAIREVNINKFC RIISEFALEYRTTRERVLQKQK RANHRENRKTRGKMITDSGKF SGSSPAPPSPQGLSYAEDAAE HGEHEGCAENLVPLQESPAHTF SIVSAVFLIP*HPVY*FKSVTPF LGKEQPL
9508	39876	A	9568	1	670	

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9509	39877	A	9569	1	2426	MPKPSLEAGSCPRLEFPVEDAQ PVIKGEETPPPPNSYLALGDIST EEWDLEVAQEYQERMPQRAA LICVFSWNLGRSLPAPAMRRPC QNFCVALSTFAGDPEPESEAE EAEAGAGQVADEAGQDIASAH EGAETEVEQALEQFPEERASLS EKERQNEGVNERDNCSASSVSS SSSTLEREEKEDKLSRDRTTGL WPAGVQDAGVNGQCGDILTNG RFMLDMLYAHNRKSPDDEEKG DGEAGRTQEEAEAVASLATRIS TLQANSQTQDESVRVVDVGCL DNRGVSVAFAEKFSNGDLGRV FNAPQGLGWSQVPRGQPTFTK KKKTIRLFWNRN/VGLLTGH/G KNNRRCREFLWSKLEPIKVDTS RLEHLFESKSKELSVSKASKLV RPLFILTSACPLSFPWKAPLHS STRQLHRGLSAQERWRCSGIRG MECLNGKGPLESRNPAYRKSE GTRQTGAGDMKDVWQGVPA TPDTQGMCTVCTVSFAIMDGL NVNSVGPLPFHEVAEPLLDLKE GIDQLDYLTLGFFFLVSMLSGGG LLGGSASAKAFELSYLEKVPEV KDTVHKQSLHHVCTMVVENF PDSSDLYSEIGAITRFHSFLFM GHPPYAIREVNINKFCRISEFAL EYRTTRERVLOQKQKRANHRE RNKTRGKMITNCVRHCVRMFS GSSPAPPSPQQLSYAEDAAEH
9510	39878	B	9570	164	346	
9511	39879	C	9571	160	339	
9512	39880	A	9572	54	212	SFSPVVLWKDLQNLKIQVPLGI LLGVGLISVPGGRI*LLRTGSRK PISQVCP
9513	39881	C	9573	48	185	
9514	39882	A	9574	2	551	ADRRGAVYPRSRDGGGVGRGPC AMATSVLCLRSCKDRGTGHIP LKDMLSVHMDTQHMGTDVVI VKNGRKIFGTGGCLASAPLHQH KSYFEFKIQSTGIWGIGVATQK VNLNQIPLGRDMHSLVMKNDG ALYHNNEEKNRLPANSLPQEG D/VVDDSAILDCCQSEFYHTPPP GFEEKLFEQQIF
9515	39883	A	9575	3	655	

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9516	39884	A	9576	131	1066	SHSSAAAHPLGLLPAAQSLA VFIEPWSQASSRGQLQVSAPGI WGIGVATQKVNLNQIPLGRDM HSLVMRNDGALYHNNEEKNRL PANSLPQEGDVVLCSNNGHS LCKEESLPILPTSDGEERRRKR KKRRKKRKKQKQQQQEAAA PAEADAEATAAEAAVEEAAAR KEEEEEEGEEGEGEEEEKAA AAARGDWSQQEKACKSSLQAI LFGHAKLEPGRLPRPTQCRVEA TVLVGTNSPLDNPLWSISWSLW QKPVGTSQQPLGLWTREFFLE GHILTRNETTFEATPLIPEIGML SQMMSEEH
9517	39885	A	9577	1	2363	ELQRDIEKHSTGVASVNLCEV LLHDCDACATDAECDSIQQATR NLDRRWNRNICAMSMERRLKIE ETWRLWQKFLDDYSRFEDWLK SSERTAAFPSSSGVIYTVAKEEL KKFEAFQRQVHECLTQLELINK QYRRLARENRTDSACSLKQMV HEGNQRWDNLQKRVTSILRL KHFIQREEFETARDSILVWLTE MDLQLTNIEHFSECDVQAKIKQ LKAFFQQEISLNHNKIEIIAQGE QLIEKSEPLDAAIIIEELDELRR YCQEVFGRVERYHKKLIRLPLP DDEHDLSDRELEEDSAAISDL HWHDRSADSLSPQSSNLSLF ASLQPLRSER/SGRDTPG/SVDSI PLAEWDHDYDLSRDLESAMSRA LPSEDEEGQDDKDFYLRGAVG LSDVMIPESPEAYVKLTENAIAK NTSGDIHSALESQIRQLGKALDD SRFQIQQTENIIRSKTPTGPEDT SYKGYMKLLGECSSISDVKRL EHKLKEEESLPGFVNLHSTET QTAGVIDRWELLQAQALSKE RMKQNLQKWQFNSDLNSIW AWLGDTEEELEQLQRLELSTDI QTIELQIKKLKELPESCWDHR/K AIIISINLCSPEFTQADSKESRDL QDRLSQMNGRWDRVCSLLEE WRGLLQDALMQCGFHEMSH GLLLMLLENIDRRKNEIVPIDSNL DAEILQDHHKQLMQIKHELLES

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9518	39886	A	9578	2	3248	ENAVGSWTDDLTLQLSLKDLT SAYISADDISILNERVELLRQW EELCHQLSLRRQQIGERLNEWA VFSEKNKELCEWLTQMESKVS QNGDILIEEMIEKLLKDYQEEIA IAQENKIQQLQMGERLAKASHE SKASEIEYKLGKVNDRWQHLL DLIAARVKKLKETLVAVQQLD KNMSSLRTWLAHIESELAKPIV YDSCNSEEIQRKLNQEQELQRD IEKHSTGVASVNLNCEVLLHDC DACA TDAECDSIQQA
9519	39887	A	9579	2	194	CSTSLMIREMQIKTTVRYHLTS ARMAIIKKSKNSRCWHGCGEH GTL LHCCNLWKERNVSYVSA
9520	39888	C	9580	105	215	
9521	39889	A	9581	1	210	MNSHFLKEDIQMANHKMEKCS VTL MIREMQIKPTVRYHLTSAR MPIIKSKNSRCWHGCGEHGT LLHC
9522	39890	C	9582	48	182	
9523	39891	A	9583	3	225	
9524	39892	A	9584	1	549	
9525	39893	A	9585	367	971	GVCLLGAPAGRRGSLLSLGLSR GQGSYLSKNVA VPSEATTVREL HP**\TSLQRPSPDPGGWVVLGF PCNQFGHQENRQNEIILNSLK VRSGPGGGFEAQLHGSSRKCEV NG\SGAHLPLFAFLRLEALPVPS DDGPRAL*PTPKLITWFGSVFA TIVAWNFEKFLVGPDPVPLR RYSRAVQTIDIEPDIEALLSQGP
9526	39894	A	9586	1	129	
9527	39895	A	9587	1	406	PTVCERELCVFAFQTLGV MNE AADEIATGAQVVDLLVSMCRS ALESPRKVVFEPYPSVVDPNDP QMLAFNPRQLKFMHTPHQFLL LSSPPAKESNFRAAKKLFGSTF AF/HLHGAMYSGIYLSPMSSIS FGYSA
9528	39896	A	9588	2	634	SSNRSHIVKLPVNRRLKFMHTP HQFLL LSSPPAKESNFRAAKKL FGSTFAFHGSHIENWHSILRNL VVASNTRLQLHGAMYSGIY SPMSSISFGYSGMNNKKQVSAK DEPASSKSSNTSQSKKGQQS QFLQSRNLKCNALCEVITSSDL HKHGEIWGCPPI/SDHVCTRFFF VYEDGQVG DANINTQEGGIHK EILRVIGNQTATG

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9529	39897	A	9589	3	3623	FGVCARGCLDSAGPWMTSRAL RPPLPPLCFFLLLLAAAGARAG GYETCPTVQPNMLNVHLLPHT HDDVGWLKTVQYFYGIKNDI QHAGVQYILDSVISALLEDPTR RFIYVEIAFFSRWWHQQTNAATQ EVVRDLVRQGRLEFANGGWV MNDEEAATHYGAVDQMTLGLR FLEDTFGNDGRPRVAWHIDPFG HSREQASLFAQMGGDGGFFGRL DYQDKWVRMQKLEMEQVWR ASTSLKPPTADLFTGVLPLNGYN
9530	39898	B	9590	1	3839	
9531	39899	B	9591	1	513	
9532	39900	A	9592	1	233	KQELNEPPKQSTSFVLQEILES ENKGDPNKPSGFRSVKAPVTK VAASIGNAQKLPMDCKGTVL QQASAAAFSLV
9533	39901	A	9593	3	469	LTVARSEHKVWSPLVTGEGKR HPYKMNLASEPQEVHLHIGSAHN RSAMPFNASPASSTTARVITNQ YNNPAGLYSSENISNFNNVASSL VIDKESEVYKMLQEKQELNEHP KQSTSFVWLQEILESEEEKGDPN KPSGFRSVKAPVTKVAASIGNA
9534	39902	A	9594	1	1146	MTTQQIDLQGGPWGFRVLVGR KDFEQPLAISRVTPGSKAALAN LCIGDVITAIDGENTSNMTHLE AQNRIGCTDNLTLTVARSEH/ KKVWSPLVTEEGKRHPYKMNLA ASEVPQEVHLHIGSAHNRSAMPFT ASPASSTTARVITNQYNNPAGL YSSENISNFNNC/ALESKDWLPA GVEANSRPLDHA/QPPSSSLVID KRILKVYKMLQEKQELNE/PPK QSTSFQFQEIILES/EEKGDPN KPSGFRSVKAPVTKVAASIG KCSRKFACVDKCVHLGFLGV FLKLRDRHRHP*VFMCCTDC GHQT*KQKGPFLWMDQIYCE ESMAPGSEVNTHTPEGIYESGST VFPPSGAQDLDPLFLPAGLLL KLFLKCKSGPLSL
9535	39903	A	9595	65	353	

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9536	39904	A	9596	1	1974	MNGVPVGAQKRVDKEEVKNG AIAELFSEDWSDCAYKANEVSR IRPLEESELLYPILGQSKLFVLSG EWSQSSEASEEVAVTLIYQLA ESPTVICAQIWQGCQAKQALEKL EEKRTSQGDPKESPTMLPTFL MNL LSLAGDVAIQQLVHLEQA VSGELCQRRVLRREEQEHKTKDP KEKNTSFETTMEEELGLVGAA DDTEAELIRGFCKMELLDGKQT LAAFVPLLLKVYNNSGLYSNPD LSAAASPTLGKFCMISTTFCNSQ PHLLFTMLEKSPLPIVRSLI VA TGD LAIHFPNLVDPWTPHLYAH LQDPAQPVWKTGVLVMTLHLIL KDMVKVKGQSKAL/RKMLGNF DCFGDKLSDSEIFSSFLSVMGKL QHGAKEGKAIIDEFEQKLQAC HARGLDGIEELINQAGSQRAP TAKKPSTVCRHQPLASAASDN DFVTPPEPRRTTHRPNTQQRAS EKKPKVVFSSDESSIKTEVEGLG YNIKL RVATQRLSFVWVMNIA EGESAVLVTVAWPECEVAVMG SLGSAARGTGKRLQEGNLQL NFVTIATKLEVSWTELGCGCVS ALFASVGTGREKAGFYQGCSE ASNIMKRGVKEVEDVQKRLI KMTVEFNLAWSLPPHMA MDQGGDRVTHESFLRCMTLMR
9537	39905	A	9597	785	5049	ACRSRMAPQMYEFHLPSPPEL LKSGGVNQYVVQEVLSIKHLPP QLRAFQAFAFQAGPLMLQHF DTIYSLHHFRSIDPGLKEDTLEF LIKGVYSGVVSRRHSQELPAIL DDTTLSGSDRNAHLNALKMNC YALIRLLESFETMASQTNLVDL DLGGKGKKARTKAAIHGFDWE EERQPIQLLTQLQLDIRHLW NHSIIIEEFVSLVTGCCYRLLEN PTINHQNRPTRAITHLGLVA LTRYNHMSLATVVKI
9538	39906	C	9598	134	382	
9539	39907	A	9599	117	235	KIAAPQLHVLPFLFFCMRPFAP WQPLPEPLELRPLSLD
9540	39908	B	9600	1	732	
9541	39909	C	9601	1	420	
9542	39910	B	9602	110	928	

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9543	39911	A	9603	1	868	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSLRLSEMPRKQGD YRTRIWKFEDGLSNVLVIQLNK LIICVMCLDLAIKGLRVLLVEG NDPQGTASMYHGWWPDLHIHA EDTLPPFYLGEKDDVTYAIYFT CWPGLDIIPSCLAHRIETELMG KFDEGKLPTDPHMLRLAIETV AHDYDVIVDSAPNLGIGTINVV CAADVLIPTPAELFDYTSALQ FFDMLRLDKNVDLKGFEPDD PTGNRTVQLTWQPLPEPLEL/C*
9544	39912	A	9604	1036	1119	
9545	39913	C	9605	1	513	
9546	39914	A	9606	1	890	MSKSESPKEPEQLRKLFIGGLSF ETTDESLRSHFEQWGTLDTCVV MRDPNTKRSRFGFVITYATVE EVDAAAMNARPHKVDGRVVEP KRAVSRSDSRPDYFEQYQKIE VIEIMTRDGSKKRGFAFVTFD DHDSVDKTVIQKYHTVNGHNC EVRKALSKQEMASASSSQGRS GSGNFGGGRGGGFGGNDNFRG GGNFSGRGGFGGSHGGGYYGG SGDGYNGFGNDGNSNFGGGGSY NDFGNYNNQSSNFGPMKGGNF GGRSSGPYGGGQYFAKPRNQ/ GGYGGSSSSSYGSGRRF
9547	39915	A	9607	1	286	
9548	39916	A	9608	1	1674	
9549	39917	B	9609	531	744	
9550	39918	A	9610	1	818	YNRAMFHAPHAVNKIALSLNNK NPARSKVLFLELLAAVCLVRGG HKLFLYLAFDNFKEVCGEKQRFE KLMEHFRNEDNNDIFMVASMQ FINIVVHSVEDMNFRVHLQYEF TKLGLDEYLDKDKHTESDKLS/ VQIQAYLDNVFDVGALLEDAAE TKNAALERVELEENISHLSEK LQDTENEAMSKIVELEKQLMQ RNKELDVVREIYKDANTQVHT LRKMVKEKEEAIQRQSTLEKKI HELEKQGTIKIHKKGDDGDIALP VVASAHCWPWGQKW

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9551	39919	A	9611	1	937	MALLTLKQQQNEDLQDISHFTT TRTPRQGTTPVQKEKSEETRLEW ARRMLRRDQHSTKGKVVKRM RGFLVGLVYCDKQSGALESLLC LWNVSGNTTLSSLVEIGSKAAL GLVCGEKQRFKLMHEHFRNED NNIDFMVASMQFINIVVHVSVD MNFVRVHLQYEFTKLGLDEYLD LLDTKSTDRKQTLHLHYISNVVK EQYHQVSLFYNELHYVEKAAA VSENVLLDVKELQRGMDFTK REYTMHDHNTLLKEFILNNEGK LKKLQDDAKIAQDAFDDVVVKY FGENPKTTPPSVFFPVFVRVKA YKQAEFE/NMELRKKQEALM EKLLEQEALMEQQDPKSPSHKS KRQQQELIAELRKIRQVKIDNR HVYEGKDGAIEDIITVSENVLL DVKELQRGMDFTKREYTMHD HNTLLKEFILNNEGKLLKLQDD AKIAQDAFDDVVVKYFGENPKT TPPSVFFPVFVRVVKAYKQAE
9552	39920	C	9612	47	286	
9553	39921	A	9613	1	423	

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9554	39922	A	9614	1	2015	MPSVSKAAAAALSGSPQTEKP THYRYLKEFRTEQCPLFSQHKC AQHRPFTCFHWH/FPQTRRRR PLGRRDGTFNYSPPDVYCSKYNE ATGVCPDGDCEPYLHRTTGDT ERKYHVIRYYKTGTCHETDAR GHCVKNRLHCAFAHGPLDLRP PVCDVRELQAQALQNGQLGG GEGVPDLQPGVLASQAMIEKIL SEDPRWQALLPVALLRHRVAH FSDANFVLGSYKTEQCPKPPRL CRQGYACPHYHNSRDRRRNPR RFQYRSTPCPSVKHGDWEGEPS RCDGGDGCQYCHSRTEQQFHP EGPVRESGVRGVFCVQSRRPW LQTPVSGTQLKWSWHVGHHSR TINPEGDKPSRLGAPENIKRGN DFACDGRADAAGMAPHVCVFP IYKSTKCNDRMQTGYCPRGPFC AFAHVEKSLGMVNEWGCHDL HLTSPSTSGSQGNAKRRDSP AEGGPRGSEQDSKQGVRAHGV YVFEQNHLAVFAAVHPPAPSVS SSVASSLASSAGSGSSPTALPA PPARALPLGPASSTVEAVLALE PTPSSPTSSAVQGVAGELGMGS GGQGCWSHVVGALAAVPAWT HSGDLEWDPSTIRTVNVGGGGP AARPAMTLAREPQLLVGGGCP TRNCSGPAASPQLLDDAGQG GRGERDSSQRPLRPQTTHRQDT
9555	39923	A	9615	2	609	IHSLCVSPCLSPCHCLSLSPASLL VSFFCCLFLMTLFPCLCVCGSLP VHLLPSL/HFLSQVLNEYFHN CELDLVFNFYKVECFPLKSPVV PESKEIGSQVDGQSRMEQRSPA HTNRENDIAREGGSEETHSKPG KGNLEFRFRCSHLQLGECPIPP WQKERTIAQGPEPEARAAVPA GRHDTRHAVNAGCALIGSLRRP WGGA
9556	39924	A	9616	60	277	
9557	39925	B	9617	43	354	
9558	39926	A	9618	3	309	GGGQGRPGAGGQGRSDGGGQ GSPGGGSGQSPGGSGGVGGGS RGGQKPGGGGGGQSPDGGGR PLAGGASRRGRSGQAQ/CPISV SATHLAF
9559	39927	A	9619	36	363	

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9560	39928	A	9620	1	512	MLMPGLSACVRDCVAFQLQAVV LGDPSAAQCQDWTWLAASAD GTCKAVGTEDGSVYFISVYDKE SPQVVHKAFLSESSVQHVVYD QQGIFLLVGTAEKGVFIINANSS SSFQIIGFT/DGGQRHFTDIHSVS FRNRHSGSDGAFLASRSREKQV GDVHTAYITATSFHNL
9561	39929	A	9621	1	822	MKLG/VQVVITDHEKLQIRQR ESD/ITKERIQILATGANVILTT GGIDDMCLKYFVEAGAMAVRR VLK/RIAKASGATILSTLANSKA HTSASILRGANDIMCGEMERSL HDALCVVKRV/LESKSMVPGGG AVEAALSIYLENYATSMGSQKE LAIAEFARSLLVIPNTLAVNAA QDSTDLVTKFRAFHNAAQVNP EHKNLKWIGLDLSNGERGDNK QAGMFPEPTIVKVKSLKFATEAA ITILRIDDLTKLHPESKDDKHGG YEDAVHSGALND
9562	39930	B	9622	625	1162	
9563	39931	A	9623	202	402	
9564	39932	A	9624	350	652	SAGGYPDGQGVHPGPPELFAAL GRLGHTLREHGHLLRYHRPG HMGRRPLPCRMGHREPGSLH* QDCPRAWQWCWPHRPGHLQD VPPPGIHLQRLSQPGP
9565	39933	A	9625	83	1503	SWNTPYNHWATKQ/LSSHSYR GGAKYEGEAVKQSLVESYTHP NSNETERSANIDTVMNWFKE DFDFVTLCTYREPNDVGHFRPE AENRKLMIQIDRTIRPWDHR EETQCCQDPLSNYIKFMDLVK FDIVGYGGFGMPLPKLGQEEAL YQALKNAYPHLHIYKKEGFPEH FHLAKHDRVLPIVMYANFGYSI NGISLLYFYTHLCDKYFNVHFF HEPLSLWRAQTTPSLSHRYISLV RHMDATNLDASEAQLPGSPYP DSAPGANLSTQDLQORRLSW PYPRPRFPNAHGPALQAPRTL LLTLPPGPAPSLPPRTALGPPL QSRPGFRPVSQRRCGAHFMAP EENAGTELLQSFERRFLAART LRSFPWQGGGGAERAPAGLAG VQQTGWVSVLKPALLPREFL GSPRSRGPDPVVPVGAWPKSALA PLLPRELAAEDEVSTALGGQT RARCGVQFTIITFTF
9566	39934	B	9626	1	1177	

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9567	39935	A	9627	1	283	
9568	39936	A	9628	1	708	MPKGKEAKGKKLALAPAFVKK QEAKKVVNPLFEKRPKNFGIGQ DIQPKRDLTCFVKWPRYIRLQW QRSILYKQLKIPETKQEKKWRL LAQAE/SVGKGDLPMKRLPVFR AGVNTVTTFVDNKKAPLVVTT HDMPIELTVFLPVLCHKMGGA TCCIIKGKARLGLVHRKTYTT VDFTVQNSSEDKGALAKLVEAI GTNYNARYDETHCHWDGNVL GPKSVAHIAKLEKAKAKELAT
9569	39937	A	9629	1	836	GTRPKMPKGGKAGKKVAPAP AVVKKQEAKKVVNPLFEKR/PK NFGIGQDIQPKRDLTRFVKWPR YIRLQQRRAILYKRLKEPPAIN QFTQALADRTATQLLKLAKH YRPAETKQEK/KQRL/LARAEEK AAIGKGDVPTKRPPV/LFRAGV KQSPPLVEWKEFSFVVISHD VDIELVVFLPALCRKMGVPY CIIKGKARLGRSLHKKCTTTVA FTQVNSSEDKGALAKLVEAIRTN YNDRYDEIRRHGGNVLGPKS VARIKLEKAKAKELATKLG
9570	39938	A	9630	3	119	
9571	39939	B	9631	1	711	
9572	39940	B	9632	97	942	
9573	39941	A	9633	1	588	
9574	39942	A	9634	1	1029	
9575	39943	A	9635	1	1031	MADQKEARHSASQWKFVGF SFRGHMQVAWEADRCCKGPRP LLAEALQDLWSPRRSQDPVP ERPCRRPQQSPLPRFGSLAPLH RENNFIKDFQLADGLLVIPLPV EEQCRGVLSEPLDLQLLTGDIR YDEAMGYPMVQQWVRVSNLY RVKLSITLAAAGFTNVLKILTK SSRELLSFIQHYGSHYIAEALY GSELTCTIIHFPSKKVQQQLWLQ YQKGFLGEPKKILGSSLPRTQF LWKNHNLITKQTVSILSCGEAFI LRKGQQISFSDSLLSELEFLR PGAGDQSLPTHLVKVVPFPQFS L/LCEMGTFFILFCNNINCAWGRG RGERYSQSC

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9576	39944	A	9636	3	4091	FASASAVSAAASSSSFATAATA AAARSTAAPPMAAAAGARLSP GPGSGLRGRPLCFHPGPPPLLP LLLLLFLLLPPPPLLAGATAAAS REPDSPCRLLKTVTVSTLPALRES DIGWSGARAGAGAGTGAGAA AAAASPGSPGSAGTAAESRLLL FVRNELPGRIAVQDDLDNTELP FFTLEMSGTAADISLVHWRQQ WLENGTLVFHVMSSSGQLAQ ATAPTLQEPSEIVEEQMHILHIS VMGLIALLLLLLV
9577	39945	A	9637	2	398	SDARVDALNKKIWERIKKHLE GHSTNLSLDIAKLKEQIFEASQA HLTLMPTGVLEGAADRLSAS NPLKWIKTLGSSVISMMIVLLIC VVCLCVVCRCS*LLREVAHRD KAAFAFIALQIKEGEHVGNST
9578	39946	A	9638	201	495	WKKTLMPGTGVLEGAAN/GLA AINPLKWIKTLGDSVISMMIVLL IC/VCLCIVCRCSRLREVAHC DKATFAFIIEKMWYFGFCFCN NSLRVIASSCIH
9579	39947	A	9639	3	409	GIYILHQKKTWEKILLAAACAIV AIENPADVSVISSRKTGQKATPL FAAVTGATLVAGCFTPTFSNQ ISAAAFREPQLLVVTDPRADHQP LTEASYINLPTIALC/TDSPLHYV GLAIQCNNKGAHSGGLTCNLS
9580	39948	A	9640	3	438	
9581	39949	A	9641	288	489	SFRPLSVLGDVVRGPTKPSGK CSPASRSLFVRRHILLHPQGLH NLDQNKATPPPQLIGHQTCAC
9582	39950	C	9642	23	411	
9583	39951	A	9643	1	209	SPSTTAVCCPPRPSIDFHSSGSSR VSAALLIQ/QRFLPLWIGLKAR HCSCGLRQRQSVSQETEDGK AG

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9584	39952	A	9644	28	925	PEAGTRSWREPDPEDLRRFLLS AACRSFPQWLPGGGGGQVSSC SDTDVPYLLAVKSEPGFAER QAVRETRRKPTS\GIRLLFLLS PVGEAGPDLNSLVAWESRRYS DLLLWDFLDVFPNQLTKEP/VL WLPGWAGPCPTGSFVLRAQDD AFVHTPALLAHLRALPPASARS LYLGEVFTQAMPLRKPGGPFY VPESFFEGGYPAYASGGGYVIA GRLAPWLLRAAARVAPFPFED VYTGLCIRALGLVPQAHPGFLT AWPADRTADHCAFRNLLLVLP LGPQASIRLWKQLQDPRQC
9585	39953	A	9645	1	1612	MIFVVIILMVVLSPEGGSGLDSS PFLSEANAERIVQTLCTVRGAA LKPYPTGPNFYSHGVPPHLF AYFPFGSTVSQDNSFISPLQHI FERVRSADFMPRWQMLRVLE EELGRDWQAKVASLEEVFAA ASIGQVHQGLLRDGTAVKIQ YPGIAQSIQSDVQNLALVKMS AALPAGLFAEQSLALQELA WECDYRREAACAQNFRLAN DPFFRVPAVVKELCTTRVLGME LAGGVPLDQCQGLSQDLRNQIC FQLLTCLRELFEFRFMQTDPN WANFLYDASSHQVTLLDFGAS REFGTEFTDHYIEVVKAAADGD RDCVLQKSRDLKFLTGFKAF SDAHVEAVMILGEPFATQGPYD FGSGETARR\QDLIPVLLRHRL VSP\PEGDLWPWHRKL\AGAF ACAHLRDHIACRDHKPGHLPPL LGQSPARRSHCRQPPHQGTGP WIPHDSLHGGFSPQSRPYAVV PLIPSPALGQRSPLGLPSLAWL SSLAQELRIPGAGELPTSCPRSC TS\PESEVSEN
9586	39954	A	9646	930	1123	GVRRDGSSASVTVGQPCRDTSL AFETVAGPYLA*K*T*TSKGPGS D*RASKVAGGVQNGTRTTAT
9587	39955	A	9647	719	1346	

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9588	39956	A	9648	1	823	MKKVLIAALIAAGFSLSATAAETI RFATEASYPPFESIDANNQIVGF DVDLAQALCKEIDATCTFSNQA FDSLIPSLKFRRVEAVMAGMDI TPEREKQVLFTTPYYDNFALFV GQQGKYTSVDQLEGKKVGQV NGPTHQKFIMDKHPEITYVSDE SYQNAKLADLQNGCAARAAPG SRRYGGWTIQASTARPSDVLLT ADSVSFAVRSRGAAATAYHRC CLSGVMVNAATACEHSTASQG RASRTVTDSDPHRPSVRRRAS FRRSGRGFCGTVR
9589	39957	A	9649	583	730	
9590	39958	C	9650	333	439	
9591	39959	A	9651	2	171	
9592	39960	A	9652	1	826	MGGLFWRSALRGLRCGPAPG PSLLVRHSGGTIMGVFAVGTI PVPSRVPCIEADTLKPGGPSWT RERTLVAVKPDGVQRRLVGDV IQRFERRGFTLVGMKMLQAPE SVLAEHYQDLRRKPFPPCPSSR YMSSGPVVA MVWEGYNNVRA SRAMIGHTDSAEAAPG(TIKGV DFS VHSRNVIHADSVEGAQR EIQLWFQSSSELVSWA/DGGQH SSIHPLRLRAALTTPSPQTQDPT YPPLARTSPSTKPAISPPLTS PVSPLAPPQAQREF

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9593	39961	A	9653	144	1650	NCETTTKGSAILRNVDPSLLPL RRAGSSPGLMPVEEEMEIDEK QMKGFLDDSERMAFLVSLHLG AAERWFILQMEVGEPLSHENKS FLRRSQGIYDSLSEIDILSAVLC HPKQGGKSVRQYATDFLLAR HLSWSDAILRTRFLEGLSEAVT TKMGRIFLKVAGSLKELIDRSL YTECQLAEKDSPGNSSQVLP ACKRNNEEAMGNELSSQQQTE EHQHVSRCYLYLKEHGDPOEG LHDHLQSTGHHQKAHTNNVA ATKKVVQQLQLEAGLNSVKVS QAAETPQTIIISPPNALQEPSGIE WEQFPKAIQSEPOENLCPFVST MNSIKGLHEDYQGNAGKVLST VPGRRYALQNLGTAIVQGEER KQSSLCPGEEGRHLELRSGSHS LVMKHAMVLFNVGFETKDQIH LPTRLGMAEVEITLCYAKQLPH KLIAKLRLLLKGRPLSLNNEHIL THPGLGWLHTEFFRILSINNKY HLSAYLVQSVLHVMOGFHRT
9594	39962	A	9654	8	440	VFERSTPPTLETVRSKQEWETR LNGVRIMKKNVDRDQFNHIQL VRNGAKLSSLQIPTPTLPPPPSE TSCFRCFNPVPLWLLGCPSPLG RQTGEDPGEAADPVPTVQ*GPD DQHSSADQDSTYHHGRPDHGG TYPVGCCTTGRT
9595	39963	C	9655	89	389	
9596	39964	A	9656	1	184	
9597	39965	B	9657	1	942	
9598	39966	A	9658	424	614	NDGPDWGGRRRETVDNKRKRGF KISKTLVLYSDIYSCHVHFYIG NVCIESLYSNVRK*NYVYY
9599	39967	A	9659	1	717	
9600	39968	A	9660	103	374	
9601	39969	A	9661	1590	2051	SYPVSEERSQAEQSSNPYSHFT STPIRDLHASGVSTQSLSGSSD ALLHWAGHNAHGYAQCRSPLL VFPNPEPCFPAPQAFLLTPSWLP WQK*PWLGFCPPRSTHAPCR LHPTSPGLGGVKASAEPRPQP VD/ETGEDPGEAADPVPTVQ

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9602	39970	A	9662	1	2912	MAQALPWLLWMGAGVLP AQHGIPLRLSGLGAPLGLR LPRETDEPEEPGRGGSFVEMV DNLRGKSGQGYVEMTVGSP QTLNILDVTGSSNFAVGAAPHP FLHRY YQRQLSSTYRDLRKG YVPYTGKWEGLGTDLVSIPI GPNVTVRANIAITESDKFFING SNWEGILGLAYAEIARPDSSLE PFDDSLVKQTHVPLNLSLQLCG AGFPLNQSEVLASVGGSMIIGGI DHSLYTGSLWYTP
9603	39971	A	9663	1	902	MSAKEKGFENMAKADKVHY VREMKTYPKQETKKKFKDPN APKRPPFS/SEYCPKIGIEHPGQ STGDVAKKLGEMRTNSAADDK WPYEKKAALKKEKYRKDTAV YRAKGKPDAAKKGDVKAES KKRKNEKDEDEDEDEDEDEE DDNEYADNCTGSGFVYKT FNSPVHNSLFLNVEIHALGFDEL LESIFCILLVEVFSLQKGVAML EEVVNGERSGRSLPWLPAAPS LPVPVPLGLRHPPSQSDNHS LTFLTALRLRLPRLGAVLEETV EDGRKTNLDPDENSVPFSPET
9604	39972	A	9664	146	733	LNMKGDKPKPRGMSSYAFF VQTCREEHKKHDPASVNFSEF SKKCSERWKTMSAKEGKFED MAKADKARYEREMKTYIPPKG ED/TKKKFKDPNAPKRPPSAFF LFCSEY/RAPKIGEPGLSIG/ DVAEETGEEMWNNNTAADDKQ PYEKKAALKKEKYEKDIAAYR AKGKPDAAKKGVVKAERKSTR PRIPDL
9605	39973	A	9665	30	359	
9606	39974	C	9666	418	555	
9607	39975	B	9667	550	1717	
9608	39976	B	9668	1	1705	
9609	39977	B	9669	328	484	

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9610	39978	A	9670	5	1215	IIVLPKMSMPVVSQAQLTITSIPP WAVE/WGNVTLVSQGIPQNLIS YNNWLRGATTNQVTRILNFFFS HGVTLGPAHTGRETGRADGSLI IIDVRASDNGIYTLHLISSGEKV AIMLCYLSLLVAPWHFHKTPR WRFPGWPRAASQRASCSPQS WSSGCSK/VSQAALYIQKIQEPQ QKNQDILLVSQGVDPDTFQDFN WYLGEETYGGTRLFTYIPGIQR PQRDGSAMGQRDIVGFPNGSM LLRRAQPTDSGTYYVAITINSE WTMKAKTEVQVAEKNKELPST HLPNTAGILAAIIGSLAAGALL ISCIAVLLVTRNWRGQSHRMAT TEKPELGPAHDAGDNNIYEVN PSPVLLVSPIDTRSNPARPLPT PPHLQAEPENHQYQQDLLNPDP APYQCLVPTS
9611	39979	A	9671	1	558	EGGLRTPSNPYHVDISQTKPCH *TNHCIOKEYSKNYGKYEEN MFFKEFNQVLTSLNITLESSIL LQIKHIIRNCLLSVEPAISTKHL YQSFQFLFGDFMVDEELKVWL IEVNGAPACAQ*ACTSLCFYKW EVGSAGVIVCGYKCSHFDCCEG GCHSDRRPLGGLYLAGGFAESL PFLFPRV
9612	39980	A	9672	1	534	MVGVDVTFKVISREERQTQRL GSSSPKRCPLQEFEEHYSSFFG RNCLLSVEPAISTKHLPYQSFQL FGDFMVDEELKVWLIEVNGA PACAQSPAKSL/CATSSSLFLSPP PWTCCQHSRQPTALAEALLSCH GWTRGAGQACLWAFVLSVTC VWNPHHHYHHHHQPYRGWLL LYQNIL
9613	39981	A	9673	624	805	SGGHPGHWLPNPMASPGATT PVGEG/ELQYASLSFQMVKPWD SRGQEATDTECSEIKHR

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9614	39982	A	9674	1	1005	MENRRKVKGEWIAVPQPVKEL RGVLNAATTLSTREILRGKCF QLTSPGTGNEPSHLSWTPRKRSR DGHFGCPDPLAASGARPLRSS AFAAAAADSGSTVQVWDKGV LRVADVWSTIEPVTHVNLGWA AKVGPIISHGSAVSAFSGEGMF RIFSERKTLAKLRDFQNTQLR KLFSEMEKAAGRSQSGVSGFG KGLGDRACEEMSENPKGRKK PKAPQEVSFRENGNWKTPSIF SPKTPRKKKSFSKEELMS/SD/L EETRWQAPSPKPKKSTPKEET VNDPLEAGHK/SGSKKKRKF K/EEPVS/SGPEEAAGKSSSKK K/FFHKASQED
9615	39983	A	9675	1	2742	
9616	39984	A	9676	1	405	MADIPQEARQYRHKQAYAYS QGEGVEDDDERIVRFHTRWPL QNADGTVAEYNGYHVVFALA GSPKADDDTSIMFYQKVGDN SIDSWKNAGR/VLKSDDKFDAN DPLKDKQTEWSGSATFTGSVF LAFGCYSK
9617	39985	A	9677	3	642	GKGLFDDDEESDLFMEAPQD RQAGASVKESSSKPGKKIPA GAVSVFLGDTDFVGAASVP EPQKPEQPTPRKSPYGPPTGLF FFSAPHSKPSKTRKVQSTADIFG DEEGDLFKEKAVASPEATVSQT DENKARAEKKVTLTSYKLNKLP SSETK/TQKGLFSDEEDSEDLFS SQSASNLKGASLLPGKLPTSVS WFDDEEEDNLLGVQ
9618	39986	B	9678	175	1422	
9619	39987	A	9679	1	3096	MVTHQQAARKPNMTSKPKPK MGPKAHGIFSGTRKNNLEIYMD QTRTGIKTLKSNKNSGGMT LPDFKLYYKAIKACGSGMY NSDTDEDEETEPSSGQIIENSI TMNKMKLLKAKMKNMNLKSK HITQVSEDEEDDDGCDLADSE KEEKDIEDIEENTPRKSRPTSF ADELAARIKGDVGRVDEEPTT VSYEDDRRGKNQDAYTEGGLS TIKTVNCSSSLPSGEAKLRKTL/ KEKKERRTPSDDE
9620	39988	A	9680	1	2925	
9621	39989	A	9681	2	688	
9622	39990	A	9682	1	1005	
9623	39991	B	9683	1	588	

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9624	39992	A	9684	1	2763	
9625	39993	A	9685	2	1075	NSDEELLFSHKLQKNDNDPVDL FAGTKKTKLLEPSVGLFGDDE DDDLFSSAKSQPLVQEKRRVV KKDHSVDSFKNQKHPESIQGSK EKGIWKPETPQAHQVSLHLKP NEPSTRIGKIQANLAINPAALLP TAAASQISIEVKPVLPIELAFVPS EHRRSHGLVESPVLPGSGEAG VSFDLPAQADTLHSANKSRVK MRGKRRPQTRAARLAAQESS EAEDMSVPRGPIAQWADGAISP NGHV*PQLRAASGEDSTEEALA AAAAPWEGGPVPGVDTSPFAK SLGHSRGEADLYDSGDIFSRAP GSQ/SVERPNPRQSRDLPPPGW KQRPSPGKQPRKRPSP*QPKHP LPKGRITSSPW
9626	39994	A	9686	1	4086	VTTPRAAWLGLGFRGSVAVLGLC WQPRSPPSRAAGMMNRITPDQ ELVPASEPVWERPWSVEEIRRS SQSWSLAADAGLLQLQEFSSQ TISRTHIEKKQVDGLIRETKATD CRLHNVFNDFLMLNTQFIENR VYDEEVEEPVLKAEAEKTEQE KTREQKEVDLIPKVQEAENVY LQVLDSAFEQLDIKAGNSDSEE DDANGRVLELLEPKDLYDRPLP YLIGSKLFMEQEDVGLGELSSE EGSVGSDRGSIVDTE
9627	39995	A	9687	1930	5781	RAKSPANIIMTGSNSHITILTLN VNLGNSPIKRRHLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTILNMYAPNTGAP RFIKQVLSDLQRDLDSHTLMG DFNTPLSTLDRSTRQKVNKDTQ ELNSALHQAADLIDYRTLHPKST EYTFFSAPHHSYSKIDHILGSEA LLSKCKRTEIITNYLSDHSAIKL ELRIKNLTQSR
9628	39996	A	9688	1	3654	
9629	39997	A	9689	1	5127	
9630	39998	A	9690	1	3663	

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9631	39999	A	9691	1	3210	MVKGSIQEEELTLNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYQNLWDTFKAVCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTTHSKASRRQEITKIR AELKEIETQ
9632	40000	A	9692	1	3489	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLTDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKWKREITITNYLSDH SAIKLELRIKNPTQSRSTTWKLN NLLNDYWVHNKMKAEIKMFF ETNENKDDTTYQNLWDAFKAVC RGKFIPNLNAHKRKQERSKIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKTRPLARLIKKR EKNQIDTIKNDK
9633	40001	A	9693	1	3235	
9634	40002	B	9694	1	3300	

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9635	40003	A	9695	I	2563	MKAEIKMIFETNENKDDTTNQN LWDAFKAEVESSLNRPIGTAEI GAIINSLPTKSPGPDGPTAEFY QRYKEELVPFLKLFQSEKEEI LPNSFYEASIIIPKPGRDTTKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFFPGMQG WFNIRKSINVIQHINRAKDKNH MIISDAEKAFDKIQPFMLKTL NKLGDGTFFKIIRAIYDKPTAN IILNGQKLEAFPLKTGTROGCPL SPLLFNILLEVLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLSNFVSKVSGY KINVQKSQAFLYTSNRQTESQI MSELPTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRAHITKSILSQKNK AGGITLPDFKLYYKATVTKTA WYCYQNRDIDQWNRTEPSEITP HTYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAIWRKLKLD PFLTPTYTKINSRWIKDLNVRPKT IKTLEENLGITQDIGMGKDFMS RTPKAMATKAKIDKWDLIKLK SFCTAKETTRVNRQPTTWEKIF ATYSSDKGLISRIYNELKQIYKK KTNPNPIKKWEKDMNRHFSKED IYAAKHKMKCCSSSLAIREMQI KTTMRIYHLTPVRMAIHKSSGNN
9636	40004	B	9696	I	3420	
9637	40005	A	9697	I	3579	MPGHNLKWKLNRGTVLIETGI QLSTSTILGSASEPPSAIPKAQV SSTEKLRLNCIDDLKFPALASEL SRRAKALQIAGFPPMKVPRDTI SKVCLDKTVGKLCHSGEESRK CTLICNNKHYPIDNLQGYKTQ NKFLNKEILELSALRRNAERRE RDLMAKYSSLEAKLCQIESKYL ILLQEMKTPVCSDEDQGPTRVI AQLLEDALQVESQEQPEQAFV KPHLVSEYDIYGFRTVPEDDEE EKLVAKVRALDLK
9638	40006	A	9698	I	4371	

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9639	40007	A	9699	1	1825	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSDLQRLDLSHTIIM GDFNTPLSTLDRSTROKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFPSAPHIYSKIDHILGSK ALLSKCKRTEIITNYLSDHSAIK LELWIKNLQNHSTTWELNNLL LNDYVVHNEMKAEIKMFFETN ENKDDTTYHNLWDTFKA VCRGK FIPLNAHKRKKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRLARLIKKKREKNQI DAIKNDKGDITDPTEIQTIRE YCKHLYANKLENLEEMDKFLD TYTLPRLNQEEVESLNRPIGTAE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELVPFLKLFSIEKE GILPNSFYEASILIPKPGRDTTK KENFRPISLMNIDAKILNKKLA KRIOQHKKLIHHDQVGFPGM QGWFNIRKSINVIQHNRAKDK NHMIISIDA EKAFFDKIQPFMLK TLNKLGIKYLGIHLTRDVKDLF KENYKPLLKEIKEDRNKWKNI CSWVGIRINIVKMAILPKNILITL QLLLVLPSTLIPLWLPALAGO
9640	40008	A	9700	1	4449	
9641	40009	A	9701	824	3693	AWKGTDDRSTRQKVNKDTQEL NSALHQADLIDIYRTLHPKSTE YT/FFSAPHITYSKIDHIVGSKA LLSKCKRTEIITNYLSDHSAIKL ELRIKNFTQSRSTTWKLNLL NDYVVHNEMNAEIKMFFETNE NKDDTTYQNLWDAFKA VCRGK FIALNAHKRKKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERITKSDRPLARLIKKKREKNQI DTIKNDKGDIT
9642	40010	B	9702	1	2858	
9643	40011	A	9703	1	3354	
9644	40012	B	9704	288	3301	
9645	40013	A	9705	1	3457	
9646	40014	A	9706	1	4794	
9647	40015	B	9707	1	3384	
9648	40016	A	9708	1	3345	
9649	40017	A	9709	1	3780	
9650	40018	A	9710	1	3720	
9651	40019	A	9711	1	3894	

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9652	40020	A	9712	1	3335	MVKGSIQQLTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSLDRSTRQKVNK DTQELNSALHQADLIDYRTLH PKSTEYTFSSAPHHTYSKIDHIV GSKALLSKCKRTEITNYLSDHS AIKLELRKIKNLTSRSTTWKLN NLLNDYVVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLKELEKQEQTHSKASRRQE ITKIRAELEKETQ
9653	40021	A	9713	1	3780	
9654	40022	B	9714	1	3855	
9655	40023	A	9715	1	3345	
9656	40024	A	9716	965	4362	TWKGTTSTRCKIMPYRSTRQ KVNKDTQELNSALHQADLIDY RTLHTKSTEYTFSSAPHHTYSKI DHIVGSKALLSKCERTEITNYL SDHSAMKLELRKIKNLQNCSTT WKLNNLLNDYVVHNEMKAE IKMFFETNENKDTTQNLWDA FKAVCRGKFIALNAHKRQERS KIDTLTSQLKELEKQEQTHSKA SRRQEITKIRAELEKETQTLQ KINESRSWFFERINKIDRPLRLI KKKREKNQIDT
9657	40025	A	9717	1	3921	
9658	40026	A	9718	1	3988	MTGSNSHTILTLNINGLNSAIK RHRLASWIKSQDPSSVCCIQETH LMCRDTHRLKIKGWRKIYQAN GKQKAGVAILVSDKTDKFKPT KIKRDKEGHYIMVKGSIQQL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSILDR STRQKVNKDTQELNSALHQAD LIDYRTLHPKSTEYTFSSAPHH TYSKIDHIVGSKALLSKCKRTEI ITNYLSDHSAILKLELRKIKNLTS RSTTWKLNLL
9659	40027	A	9719	32	583	GPHGAFTHGRR/FRGRDPYEGP RRTGKRKQKSARGCIVDANLSI LNLVIVKKGKEDIPGLTDTMVP CHLGPKRASRICKLFLSSEDD VHQCVVRKALNKEGKKPRTKA PTTKYLVTPHVLQHEWWHIAL KKQRIKENKEVAEYAKLLAK RMKEAKEKHQEQIAKRRRLSSL RASTSKSESSQK
9660	40028	A	9720	318	605	

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9661	40029	A	9721	1	649	MGLKGQGVVEGGLLRQSGSVSL QPLSREDLGRSQSESLGPEFQGL WEWLPVERVERENLSDYCVLG QRPMHLPNMNQLASLGKTEQ SPHSQIHHSPIRNQVPALQPM SPGLLSPQLSPQLVRQIAMAH LINQQIA/S*PAGSPASSSHQPA VPEPS/IPSPEQLSQSQPTLPWKS LQISTSKSEMS*RGVPVCPKLSLQ EWHSTAHRLNLTWKD
9662	40030	A	9722	15	272	KPQWPGIPSGPPPGSCFKC*K GHWAKECLQPRIPKPCPICAGP HWKSDCSTHLAATPRAGTLA QGSLTDSFPDLLGLAAEG
9663	40031	A	9723	96	531	VQPADLLRPLHTDTCNIWCQRP GTEGLLRETGPLSS/PLTP/MRRS TYDLRSSDQPKHELTDFKSGSC FKCRKSGHWTKCQQRIPPKP CPICAGPHWKSDCPSCPAATPR APGTLAQDSLTDSPFDPKGSLL DYFPDLLCLVAED
9664	40032	A	9724	3	567	GRLQTGADPAWRVHGTWRSTS AADAIDQMVPWPVMTWRLNE RHYGGTLTLGKAETAAKHGEA QVKIWSNISKDRRYADLTDDQL SSCESLKDTIASALPFWNKEIVP QIKEGKWVLIAAHGNSLRGIVK HLEGLSEEAIMELNLLTGIPVC KLDKSSKPIRCMEFLGDEGTLC KAMEVAQAQKAKK
9665	40033	A	9725	2	801	GGVPHQPAAAMAAYKLVLIRH GESAWNLENRFSGWYDADLSP AGHEEA KRGGQALRDAGYFED ICFTSVHLYAIRTLWTVLEMP SEMWLVPVVRTWRLNERHYGG LTGLNKAETAAKNGEAQVKI RRSYDVPPPMPEPDHPFYSNISK DRRYADLTEDQLPSCDRLKDTI ATALPFWNIEIVPQIKEGKRVLI AAHGNSLRGIVKHLEGLSEEA MELNLTGIPIVYELDKNLKPI KPMQFLGDEETVRKAMEVAQA QKAKK

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9666	40034	A	9726	3	573	VAPVVQVWKEMHKLLPFSPDS VVTHGDISIDSGIFDQDKLIGRI DVGRVGIACGCQDVAIVWNYL AACSVDRNTRCIRMPNCRPEVE ETPGLKEEKELSQPKEGEATDL KKEVEKISSSEEEETVNLKEEVE KIPPPPEETMDLKEEKEIIPPEL RDQKLHVLKDLPEVSAVPHK DSLFIIGQLTTVPV
9667	40035	A	9727	2	685	TLYCRVFLLDGTEVSVDLPKHA KGQDLFDQIVYHLDLVETDYF GLQFLDSAQVAHWLDHAKPIK KQMKIGPAYALHFRVKYYSSEP NNLREEFTRPKITKMDFFKSKL TLVVVEDDDQGREQHTFVFR LDSARTCKHLWKCAVEIHIAFF RLRTPGNSKSNRSDFIRLGSFR FSCFS/ERENAHSTGNSPALRER PGDGSVSREGRWVDEGWQP RP GGRGQNALCSVP
9668	40036	A	9728	1	419	MSKFGGRATRGLRKPEVGDVIRT IVRAGLAMPGPPLGPVLGQRRRA SINQFCKEFNERTKDIKEGIPLL TKIFLKPDTFEIKIGQPTVSYF VKAAAAGIEKGARPT/DLSSEFEA AFQKEQAIFLAAQKKADLATQ EEAAKK
9669	40037	A	9729	97	826	SQLPRIMSKLGRAARGLRKPEV GGVIRAIVRAGLAMPGPPLG'N VLGQRGVGSINQFCKEFNERTKD IKEGIPLPTKIL/VKPD/RTFEIKI GQPTVSYFLKAAAAGIEKGARQ TGKEVAGLVTLKHVYIARIKA SGLRAFAIQDVPLSSV/VSIGS ARSLGTSRGERTSSSEELAAAFQ KERAIFLAAQK'EA'DFGLPKKE AAKEIDPLPHQLPDFQKEVSLQ KLCPMRGRRSHQYDDGFHDFE
9670	40038	B	9730	273	418	

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9671	40039	A	9731	69	1565	RRRRFQASGAAAMLSSRAEAA MTAADRAIQRLRTGAAVRYK VMKNWGVIGGIAAALAGIYV JWGPIITERKKRRKGLVPGLVNL GNTCFMNSLLQGLSACPAFIRW LEEFTSQYSRDQKEPPSHQYLS LTLHLKALSCQEVTDDEVL ASCLLDVLRMYRWQISSFEEQP HFQDGLVQLRVGVVCRHYPEK WEAASWTSQNCGADDAHELF HVITSSLEDERDQPRVTHLFD VHSLEGHPLTDLCHLHHF/TQSE SVRDVVCNCTKIEAKGTNG EKVEHQRTTFVKQLKGLKPQ CLCIHLQLRLSMVQPGTPLKRHE HIVQFNEFLMMDIYKYHLLGHK PSQHNPKLNKNPGPTLE/HAGW AGSPHTSSSESARGPQNTDFYEW RLLPIFIANAASADALPSPCSR LQLLHPLPADGQLSSTMGDMA LWDTLFIYRSPPSARNPLSTSN QWLWVSDTVRKASLQEVLS SAYLLFYERVL SRMQHQSQEC
9672	40040	A	9732	1	1393	PLQLQPRHIGAQQLGPLLQRV QAIRLGSFHMVLSLW/WMQSAR VEILEPPRLQRMYGKAWRISL CPQGLSTVMRSELTASSTPQVQ EILPPQSPEYLGPKGITERIHKIM HVKGKLAKLPANRNQSPGVSG KRLVNCVSASAVDSEPAAVPEP DVCAGIVIKKQCFPIARCNKT KQVDSIPHRAAYAKSPFFFAVV VVTSESKDPRVKQNPHTHLLAE GSNAAHFHKT KISQSLKWLVPV YLNSTTYEYRDLTKGLSLLCSL LLGVEADIPSMAGLHVRHLMQ VPQPCIAFAVSSPLHQGGKET EDAWSFHIPSTIHRWPTSPVQL SSLRASTQLLCLHINLAKCFIWG ILAQVLSCHHHRITQFVGM LTF VCAGDSSKLSPDIRTLVRRLTS YLVASVLLKSKQMALCSASRI LDVSVSPGDHVASEARARCAP DLVAPRPMPIHQNGSLEWTEE
9673	40041	A	9733	44	282	FSCLILHDAFPCLILHDAFPCL CSVTGSLVLSRVPLRGTHQKSA IATSTKIALSNM/KILKHHTDAY FKKQQLFFDVSKK

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9674	40042	A	9734	3	381	EQQGQR/SQWWRGAAARVSRTV KRVLCV/VVECP.LKSACPDVDM YWAALQRLASLLKADGNLVT MAALHSHYMGSKKFFGLHPE KETVEKAMQEAGCQVQRCA/SI SCSETCSINDGICFVAACKGPSV
9675	40043	A	9735	2	209	CRHSTQHCVS/HHGHSQYK/DS HQHYSHYHHHHNPHHHHQSPY LHHHHYDCHLHHHHHNDHYH RHISVYDI
9676	40044	A	9736	197	3348	RVVQTDMIKGMLETSLKISLD QAFIRJCLNSTCFRPKGKLVK/C EKSINSASLVSTSQRIKCPKTHI SKNYGNFLNSSLTQKQEVH MREKSFQCNESGKAFNYSVLR KHQIHLGAKQYKCDVCGKVF NQKRYLACHRRCHTGKPKYKC NDCGKTFSQELTLTCHHRLHTG EKHYKCSECGKTFSRNSALVIH KAIHTGEKSYKNECGKTFSTQ SYLVYHRRLLHTGEKPYKCEEC DKAFSFKSNLERH

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9677	40045	A	9737	1	1665	MAGACWLMFAFYWVLKLLVV KSA/SWPRQSSSLKWNWNFKGC QDLETWGKKETRKFYGYRRNE EAQKYScriPRKPD*WCHCWQ W**WLMFAFYWVLKLLVVK AYGLVKALSNIGISKVAKTW KPGGKKRLNFMAIEEMKKHR STHVGFENLTNGATAGNGDD GLIPPKSRTPEQQFPDITENEE YHRDFSKLCLGSAANGVVHVE VKMCVYNGKGERQEEMKGLI SMNLVVEEMKKHESNNVGLL ENLTNGVTAGNDNGLIPQRKS RTPENQQFPDNESEYHSLGDK SKTSFQNSNNNNKQEQQQQ NPTFSNTRKLTkLYKAPIPPSIIL SGCPNINDSNWQEIIEHGMQTA GLPTRPLSHGLQKQGAARCLG CKCSEPFSTSLILQKAKTNTQK WQATYPKSQNEQLVPSVGKSY RCSTPAQPMKTA VGHKPKCAT GAELPKALGAQPLHPCALDVG QGFKKGNFGAVGLNGLLGLF HGVSGVLLVPGDGGGLISEGVV REDLMCGVWSAGTWSVGTA RCLEKPGALHVIEGPLDSWDGP VMPNGPVKSRQSSCLDGPGR CSEILTGQSHGNKKPARASSKS SQSINDRPLAVLTNQYQCEQLA SERQPSSNSCSIRIDSA
9678	40046	A	9738	1	115	RRTARGPQQTSDGLGTSPCRN ASEHTADILELSTLIV*RRQ*ICL CLDFLYY/LIPEGRFCFRACDLV HNFDTIILQQHRTLTSGQVDDF LKAKATFKASDFIDALVLSKVA SPRILIQGGRMGA*DQVSDQAS VYGRCSSSGAEEAKRPSAWL LLGYDSRASGLY*ILYNLTkHP D/YRECCQPMQES*S*RR TAR GPQQTSDGLGTSPCRNASEHT ADILELSTLIV
9679	40047	A	9739	1	506	MVIVGLAAGVLLVPGDGGGLIS EGVVRDELKMGVWSAGTWSV GTAERCLEKPGALHVIEGPLDS WDGPVMPNGPVKNHKGEEQ VPSKHPQMALEICLCLDFLYY/L IPEGRFCFRACDLVHNFDTIILQ QHRTLTSGQVDDFLKAKATFK ASDFIDALVLSKVASPGS

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9680	40048	A	9740	1	380	KFSRSPVNMLRIVKPCITRG/YP NLKSVNKL IYKHGRGKINKKRI ALTDNTLIDQSHGGYGIICIEDLI HELYLWPKLSSPQSGMKKKT THFVENGAAANREGQIHRLLIR MNCGVYRDYFNLVS
9681	40049	A	9741	3	279	
9682	40050	B	9742	23	197	
9683	40051	A	9743	2	402	CGDRGALRPPSCAGRSRGPGR PPRPPRLPWHPAPPAHGA PLARPGARARRSEKPPSEKPLRRSS PRAQEEGPGPEPPPELALLPPPP PPPTPA/PRRPRP/PGPRAAG ALGDVPEAAEAYLERVPPSSC
9684	40052	A	9744	1	660	
9685	40053	A	9745	1	1035	
9686	40054	A	9746	1	2575	MRAAGGAMLCGKQGRWDPEG EGAHPGFIPKLACSSQGVFRQL HLRTAVTA AVSRHFPQPSWRY DPGPQFLGEKSGFKPRCPGVAV CQFQSMNAFIHWFRNKAWASS CDRIKIPVPEATFVFNCLPGEI GQLLRQLQSGRNLEWLRQF CDHPLEHCEDTRLHDAA YVGD LQTLRSLQEEYSRINEKSV WCCGWLPCTPLRIAATAGHGS CVDFLIRKGAEVDLVDVKGQT ALYVAVVNGHLESTQILLEAGA DPNGSRHHRSTPVYHASRVGR ADILKALIRPAACDRSVSITADT HFRYLIVVPAMFRSRKAIPFLS SCTAWRCADQLQIPVPLVDT SGSGKTVSNVITESHNSDNEED DQFVVEAAPQLSEMSEIEMVTA VELEEEKHGGLVKKILETKKD YEKLQSPKPGKPSATGWHG ECLGTRNRAQALVGWGLY SERHSGMLRAITLKYKGGGRQ GIQA/AWKSEIFRSRAAPENPL GRWGFALLSKIIIS* RQVLKLFH SLSPQARVNSRFPGSGKAGLGL WMEGARPSGHVPKERVVAGK RPQVPTKAHHTCVRETAGNQE GNGEGALQQEQRLGVAEAGSN GEGALQQEHRITDCAVEPLKAE LAELEQLIKDQDKICAVKANI LKNEEKIQKMERSLFESAWKKE KDIVSKEIEKLRTSIQTLCKSAL

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9687	40055	A	9747	2	1739	MKGLYTDAEMKSDNVKDKDA KISFLQKAIDVVVMVSGEPLLA KPARIVAGHEPERTNELQLHIGK CCLNKLSSDDAVRRVLAGEKG EVKGRASLTSTRSQELDNKNVRE EESRVHKNTEDRGDAEIKERST SRDRKQKEELKEDRKPREKDK DKEKAKENGGRHREGERERA KARARPDNERQKDRGNRERDR DSERKKETERKSEGGKEKERLR DRDRERDRDKGKDRDRRVKN GEHSWLDREKNREHDKPEKK SASSGEMSKLSDGTFKDSKAE TETEISTRASKSLTTKTSKRRSK NSVEGDSTSDAEGDAGPAGQD KSEVPETPEIPNELSSNIRIPRP GSARPAPPRVKRQDSMEALQM DRSGSGKTVSNVITESHNSDNE EDDQFVVEAAPQLSEMSEIMV TAVELEEEKHGGLVKKILETK KDYEKLQQSPKPEKERSLFES AWKKEKDVSKEIEKLRTSIQTL CKSALPLGKIMDYIQEDVDAM QNELQMIVHSENRRQHAELQQ EQRTIDCAVEPLKAELA/ELEQ LIKD/QQDKICAVKANILKNEE KIQKMVYSINLTSRR
9688	40056	A	9748	93	800	RANLPTQPYCHCLGAPAAALTRI VGGSAAGRGEPWPQVDLWLR RREHRCGAVLVAERWLLSAAH CFDVGDPK/QWAAFLGT/HVP ERRGGAVERVARIYKHPFYNL YT/FDYDVALLELAGPVRR/SL VRPCLPEPA/HATPDGTRCVIT GWG/YGS/GAQLQKAAVRLLS EQTCRA/LYPVQISSRMLCAGF/ LQGGVDS CSGDAGGPLACREPS GAPVPGQPRTCTAPARWPRRSA LSPAPL
9689	40057	A	9749	107	378	NLVP*LRSGD/SPLGDQSPVLLIF TP*ERSTYNLKSDD*PAQETS/PP ISNPDPDEN/PDCSTHLAATPRA PGTLAQGSLTDSFPDLLSLAAE D
9690	40058	A	9750	2	286	

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9691	40059	A	9751	215	631	GTQSCNQKVLNSANNLQELGIG PKFQMRLLKPQLAPMQPNRGTS LGRSIPCPPVLCMRKIHLPQV LRPTSPRNISPILNRVSEVSDHA GTPALVLHP*RVPLFWGRGK YPNPFSLCLYPFSAFLGGKKHP TPSPSP
9692	40060	B	9752	1	933	MLPNRLGSSSETITDAELRVTLT VEELNGLRAVQDMFVKQILKA ARSLRVITIPNLKYPGTQTLRKA AAPDPNTTGLIFLEKLCEIAAAI ASYVAVPSLEINHRKKANPNLL LRRSGSGSVSLQLLAEKIWEGV REPWARVVLVWEWLPDQNPIS GLTKSNSTRHELPHGRAIQLH LSGWELWSEPSNLLDLVVTGDI ENTSLAPEDPTFLTTPSGSHCPE SPSDGPGLLSSVALVWFLVED WLSRKRLESEPAELPLGKAGEV VFDTLPLPSRRTHFSGFLGHFCY SFSDBGYSTNRAAPDGSSTKA HGSCRKQPPYTLQCRDKAGLR VHGNSPVSAYGWLFSEERPGKP TRTPFSWEGDPPGLLTADETSL VVHLELPVFPFLKRAGNSRHS GMGSPLEAEEAYSTVVMADVS QYPVNEPLVAAVVCQEPERAQ PDVHFFQ/CLRLGGHAGGVAAR PLPAAETPPLQRRPSVRA*SAP* SGARAADDPRTTHS/QAEEAQR PEPDILNHVFDDVESF/VRLQK SAEAAARVLEHR/KRGRSRRRRA AGEGLLTLR/AKPPSEAEYTDV LQKIK/HAFSLLARLRGNIADPS/ SSELLHFLFGPLQMIV/QPSGGP EFASSVRRPHLT/RDAVALLRD NVTPRE/RLWTS LGDSWTRPG LELSP EEGPPY/PEFFSGWEPPV TDPQSAAGRTO LRNSYSTSGGA
9693	40061	A	9753	1	2283	
9694	40062	B	9754	1	930	
9695	40063	A	9755	76	247	QLKTDTAQLPRKLFVESHNYH CSWPGQLQSGLPHYSGYHTSS* LYLSDPADIHPIPS
9696	40064	C	9756	95	301	
9697	40065	A	9757	352	545	DILNHVFDDVESFVSRLLQKSAE RPGCWRRRTRPQKPAPGVAG* RGTWIRGI*TPPDLFQMSPSLP
9698	40066	B	9758	406	602	
9699	40067	A	9759	1	543	

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9700	40068	A	9760	2	138	LDDFVGRMLTLMGCPPEPC/PRVPSPLREGRKTQAALSVRRGRSHRR
9701	40069	A	9761	1	417	
9702	40070	A	9762	830	1029	YLPHLSLRLLPCCPPLPLSKPNSLP*LRPSLLQRDYL SIFILINMPSISSTTMLLYGQKEISSLH
9703	40071	B	9763	40	980	
9704	40072	C	9764	419	700	
9705	40073	A	9765	271	1185	
9706	40074	A	9766	2	1655	RGRSRRRRAAGEGLLTLRAKPPSEAEYTDVLQKIKYAFSLARLRGNIADPSSPELLHFLGQLQMI VNTSGGPEFASSVRRPLVTSDI AVALLGNNVTPRENELWTSLGDSWTR/LRA/EELSPEEGPPYRPEFFSGWEPPVTDQSRAWEDPVEKQLQHERRRRQSQAPSGRCQWVTGDLPESEPQLESETAGKWVLCNYDFQARNSSEAVRSSSGDVLAEVLDDSR:KWWKVRDPAGQEGYVPYNILTPYPGRLHH SQSPARSHDSTPPPPAPAP/VP/LPPALARPRWDRPRWDSCDSL NGLDPSEKEKFSQMLIVNEELQARLAQGRSGPSRAVPGPRAPEPQLSPGSDASEVRWLQAKGFSSGTVDALGVL TGAQLFSLQKEELRAVSPEGGARVYSPVTVQRSLLEDKRESSELEAVMEKQKEEGRRGGNGGHLTCQAPFAKSDEAPWENGPPQTLPNSGRSSEGWPICSGPGLPPLPVDRLNDPCCSPSGEDLDWLGVGRAWRQSTESASRPGRCSGALSIVILRPSINMPPCLAKKKKK
9707	40075	C	9767	565	762	
9708	40076	A	9768	1	401	SPLRPLLLALALASEPCAQGACPASADLKHSDGTRTCAKLYD/CSDPY YENCCGGAELSLESADLPYLPSNWANTASSLVVAPRCELTVWSRQGKAGKTHKFSAGTYPRL EEEYRRGILGDWSNAISALYCRCS

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9709	40077	A	9769	1	1489	MPQLLQNINGIEAFRRYARTEG NCTALTRGELKRLLEQEFADVI VKPHDPATVDEVLRLLDEDHT GTVEFKEFLVLVFKVAQACFKT LSESAEGACGSQESGSLHSGAS QELGEGQRSgtevgragkgqh YEGSSHRQSQQSGRGQNRPGV QTQGGATGSAWVSSYDRQAES QSQERISPQIQLSGQTEQTQKAG EGKRNQTTETMRPERQPOTREQ DRAHQGTGETVTGSGTQTQAGA TQTVEQDSSHQTGRTSKQTQEA TNDQNRGTETHGQGRSQTQSA VTGGHAQIQAGTHTQTPTQTVE QDSSHQTGSTSTQTQESTNGQN RGTEIHGQGRSQTQSAVTGGHT QIQAGSHTETVEQDRSQTVSHG GAREQQGTQTQPGSGQRWMQ VSNPEAGETVPGGQAQTGASTE SGRQEWSSTHPRRCVTEGGD RQPTVVGEWVDDHSRETVILR LDQGNLHTSVSSAQGDAAQS EEKRGITARELYSLRSTKP
9710	40078	A	9770	2	3031	
9711	40079	A	9771	6288	6584	TAVSLPAPLFSDLQIPPRKRSK ETVMAPENLTN*RAPPOSSARV FQ*EALYVPGP*ALDPPEVCSSY SSVCGLHLQLSHSSSESSSTLGS LGSFQML
9712	40080	A	9772	884	1032	ESRPNTTTLRKTSSWSFQS*TA TQTKGPRDPGASMTKPGATSER SASG

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9713	40081	A	9773	1	1457	RSAQKEKTAAKEQQGEKTEVL SSDDDAPDSPVILEIPSLPPSTPP STPTYKKSLRLSSDQIRRLNLQE GANDVVFSVTTQYQGTCTCKA TIYLWKWDDKVVISDIDGTTTK SDALGHILPQLGKDWTHQGITS LYHKIQLGQLVMPDARPERP MDGMKVRFAFMERLLFVRRGT DKRWSVRMYVTCSSSNLNEE IYINQVVIQANMKLQLWAMRT DDARGLSSLGDTEPSPCPSPVVP GLQPKPAPVCAGDALLQAQIPG VLLGTLFSGAAFYSGLYGGSEQ FLDHLLHPARAAPPPPLVGP APRVPGSPSAPELAGPAVWRFA AAASRGVVVAASGWGRGGEA SQTFTGTGKEPGGTRHPTRMPLG STGCIFFGTLEKSQGYERYNAM RADPALCFLEKVGMPDEKSLSA EQGVTDGTSIPERARQNEEQ TSFGLLWPTPGSTDHIDNHPR ERYPEMRWELDVLPDIDYMEI PVDWDDA
9714	40082	A	9774	3	4804	KRLENIQKTLEVAFSEAVWMQ PSVVLDDLDLIAGLPAVPEHE HSPDAVQSQRLAHALNDMIKE FISMGSVALIATSQSQSLHPL LVSAQGVHIFQCVQHIQPPNQE QRCEILCNVIKNKLDKDKFT DLDLQHVAKETGGFVARDFTV LVDRAIHSRLSRQSISTREKLV TTLDFQKALRGFLPASLRSVNL HKPRDLGWDKIGGLHEVRQIL MDTIQLPAKYELFANLPIRQRT GILLYGPPGTGKTL
9715	40083	A	9775	1	897	
9716	40084	A	9776	486	800	CLQLSWLSLQGAQVHWLGRA VHTAF CMD*VLLFGESFGFLVR LTPGILLGLL*P*KQGHCHSVSL GEVRI/CGHS*TFITSWAFSVLQ GKASAPVKVSTQNSRY
9717	40085	C	9777	332	497	

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9718	40086	A	9778	1	6504	MWGSRLAGAGGGGA AVTVA FTNARD CFLHPRRLVAQLHL QNQAIEV VWSHQPAFLSWVEG RHFSDDQGENVAEINRQVGQKL GLSNGGQELHVAVSEQLHLLDQI RIVFPKAIFFVWVDDQQT YIFIQI VALIPAASYGRLETDTKLLIQPK TRRAKENTFSKADA EYKLLHS YGRDQKGMMKELQTKQLQSN TVGITESNENESEIPVDS SSVAS LWTMIGSIFSFQSEKKQETSWG LTEINAFKNMQSKV VPL
9719	40087	A	9779	1	5421	
9720	40088	B	9780	124	273	
9721	40089	A	9781	84	493	IHANNC S*L*K AALNFV LLLLQ KRL*GEKHLTLSETGREGNKVG GVGS*VTGTGQETELGSLGRCH SPLSVLHLLPFFS/LLGRTHLNA LLIRDYFASSCKYL*EVLLSLSD GSG*NLMSVVMAGNSSAEYVR
9722	40090	A	9782	1	5954	MDGMT EACIKGGIEAC YAAVS CVCTLI.GALDEL SQQGL SEGQ VQLLLRLLEELKDGA EWSRDS MEINEADFRWQRRVLSSEHTP WESGNERSLDISISVTTDTGQTT LEGELGQTT PEDHSGNHNKSLK SPAIP EGKETLSKVLETA VDPQ DVVQSRSHTV PYPDITN FLSVDC RTRSYGSRYS ES NFSVDDQDI.S RTEFDSCDQYSMAAEKDSGRS DVSDIGSDNCSLADEEQTPRDC LGHRSLRTAALS
9723	40091	A	9783	1	2217	
9724	40092	A	9784	1	1360	
9725	40093	A	9785	1	777	MNIKNPIAAQHLDNLP IVKASSI GMTWGLVRNGVSAPTQKSCIRI HILARCTGAVAFEKLYF KSPAN QAHARKVGKQVQDCYIGR DIV AKAGAIHHLNVGKGTPVCCPLL EEGINSEVWTT EGQYGRAK'NA RPVQVKLKDSTSPFYQRQYPLR PKA/LTKGFQKIVKDLKAQGL.V KPCSNPCSTPILGVQKPNRQWRJ EAL.KLQIVLQMEPQM QSMTKI YHGPI.GRPASPCSDVNDIEGNP TKEISTAPPLLCPSAGSS
9726	40094	A	9786	1	415	

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9727	40095	A	9787	1	451	MVHFISRLLYSDGLDVPGDPIQ DSDDAALSVSPHCSPDSRVSTT KHLWVSPRLLRVAVRVKNIDIT NFSWWNDGLAFCALLHTYLP AHIPYQELNSQDKRRNFMLAFQ AAESVGIKSTLDINEMVRTERP DWQNVMLFVIAIYKYFET
9728	40096	A	9788	3	605	DEWPPERIIQYNEPTTWH/EDGL WGYRTRFYMINQIIW/LQAILEH TNKTDRAITLAQQETQMRNAI NQNRALDYLPAEAGGICGKF NLTNCLHVDVDDQGVVEDIVR DMIKLSHVPMQVWHGFDPGA MFGKWFPVLGGFKTLIGVILVI GTCLLPCLLPVLLQMIKSFAT LVHQNASEQLYYMNHYSVLQ EYMGS
9729	40097	A	9789	3	876	GAGGGFGSPMDIFDMFF/GGGG RMHRERRGKNVVHQLSVTLED LYNSATRKALQKNAICDKCE DRGGKKGGVEYCPNCRGTGM QIRIHQIGPGKVQIQSVCECQ GHGEQISPKDRCESCNGRKILR EKKILEFHIDKGMKYGQKITFH GEGYQEPGLEGEDIIIVLDQKD DAVFTRQGEDLFMCQIVKHGDI KCVINEGMPYIPRYEKGRLIIE FKVNLPENDFLSPDKLSLEKL LPKRKEVEETDEMDQVELVDF DPNQERWHHYNGEAYEDEH
9730	40098	A	9790	199	410	
9731	40099	A	9791	134	1369	KMVKETTYDVLGVKPNATQE ELKKAIRKLALKYHPDKNPN EGEKFKQISQAYEVLSDAKKRE LYDKGGEQAIKEGGAGGGFGS PMDIFDMFFGGGGRMQRERRG KNVVHQLSVTLEDLYNGATRK LALQKNVICDKCEGR/SGRFKE QGAVRSACPNCRGTMQIRIHQ IGPGM/VQQIQSVCECQGHGE RIRPKDRCKSCNGRKIVREKKIL EVHIDKGMKDGGKITFHGEGD QEPGLEPGDIIIVLDQKDHAVFT RRGEDLFMCMDIQLVEALCGF QKPISTLDNRTIVITSHPG/QIVK HGDIKCVLNEGMPYIRRYEAK GRLIIEFKVNFENGFLSPDKLS LLEKLLPEIRKEVEETDEMDQV ELVDFDPNQERRRHNGEAY EDEHHPRGVQVQCSDLLMPV

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9732	40100	A	9792	3	337	GYSQAPRRK/GGECSSLSQPFSSK AQPDAAASLEPPSLETAPAGRTPA TLTQGSPPAAVREPLSPGHNAK ARLRSRPARPPWIPDPDPFGHFV TDFCAPESLQGETRTSRSFQLL
9733	40101	A	9793	1	346	SGS*QLQMCISGLPAHTQDETHI SSCGQLDLALPPLLPLPPSLN TLPPQGLCTC
9734	40102	A	9794	1	1110	MEGEEAAGAAGDPVGHRRKCC GFHPVCEREAPSTFAAVMIHLV VQYIGEICRYLLKQPVREAERR HRVRLAVGNLRPAIWEEFTER FGVRQIGEFYGATECNCSIANM DGKVGSCGFNSRLPHVYPIRL VKVNEDTMELLRDAQGLCIPC QAGEPGLLVGQINQDPLRRF NGYVSESATSTKIAHSVFSKGD SAYLSRDALMMDELGYMYR DRSGDTFRWRGENVSTTDVEG ELSRLLGQTDVAVYGVAVPGK LGLQGVVLRHGVGKAGMAA VADPHSLDDPNAIYQELQKVLA PYARPFLRLLPQVDTTGTFFIKI KTRLQREGFDRQTSRDLFFLD LKQGHYLPLENAVYTRICSGAF
9735	40103	B	9795	28	376	
9736	40104	A	9796	3	461	VRQCRGIRDPIYRFFKRTLEFIA AEGIHGTGQFVYCGKKAQLNIGN VLPVGTMPGTVCCLEEKPGD RGKLARASGNYATVISHNPETK KTRVKLPSGSKKVISSANRAVV G/VVSGSS*MLRAVGEHAVSAG GQPVARLGPWNSITCCSKTWV
9737	40105	A	9797	1	701	MQEVPMGFERNYPHAIITFKPS VPVSRSLDYAPLPGGVFRDPYW FKKRTLEFIAAEGIHGTGQFVY GKKAQLNIGSVLPVGTMPGMI VCCLEKPGGRSKLSWASGNY ATAISHNPETKKTRVKLPSGSK KVVSSANRAVVGVVAGGGRT DKPILKACQAYHKYAKARNW WPRVVDVAMNPMHEHPGGGN HQHIGIPSAI/SRDDPAGCKMGL IAARQTGRLGWTKTQKEKEN

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9738	40106	A	9798	1	910	QCGGIRRTGPPVAMGRVIRGQR KGAFSVFRAHVKHRRGAARLR AVDFAERHGYIKGIVK/DAERW PGREGKGRPAGTPHSRRLCPQD IIHDRGRIGAPLA/RVVFRDPYRF KKRTELFAIAEG/IHTGQFVYC GKK/AQ/LNIGNVLPVGTMP*IG TIVCCLEEKPGD/RGK/LARASG NYATVISHNPETKKTRVKLP GSKKVISSANRAVVGVAAGGIG RIDKPIFEGWPGRYHKYKAKR NC**PRIRGVAMNPVEHPF/GGG NHQHIGK/PSTIRRDAP/AGRKY GLIA/ARRTGRLRGTKTVQEKE
9739	40107	A	9799	1	405	LEISIMAAISISGYTFSVCFHSA NSNADHEGFLGGEVRQEETFSS DSQISNTEFLQV/KVIGWYFR RNTQQQMSYREQVLHKQLTRI LGVPDLVLLFSFISTANNSTHA LEYVLFRRNRRYNQRISLAIPN
9740	40108	A	9800	1	232	
9741	40109	A	9801	1	420	
9742	40110	A	9802	3	1272	EISIMAAISISGYTFSVCFHSAN SNADHEGFLGGEVRQEETFSSD SQISNTEFLQVIEIHNHQPCS FSFYDYASKVNEESLDRILKDR RKKVIG/WYFRFRNTQQQMSY K/SEQVLHKQLTRILGVPDLVFL LFSFISTANNSTHALEYVLFRRN RRYNQRISLAIPNLGNTSQQEY KVSSVPNTSQSYAKVKEHGTD FFDKDGVMMKDIRAIYQVYNAL QEKVQAVCADVEKSERVVE QAEVNKLRRQITQRKNEKEQE RRLQQA/VLSRQMPSES LDPAFS PRMPSSGFAEGRSTLGD AEAS DPPPPYSDFHPNNQESTLS HSR MERSVFMPPRPQAVGSSNYAS TSAGFEVFLGSGADLPPQRAA GDSGEDSDSDYENLIDPTEPS NSEYSHSKDSRPMAPHD EDPRN
9743	40111	A	9803	3	513	GAYGGGYGACDNYNGYGYGF GSDRFGRDLNYCFSGMSD HKY GDGGSTFQSTTGHCIVVH IEIGP DGRVTGEADVEFA THEDAVAA MSKDKANMQHSYVEPLNCAA GASGTA YGSQMMGGMGL SIQS SYGGPASQLSGGYGGYGGH SSMSGFDQVLQENSCDFQSDIA
9744	40112	B	9804	73	1127	

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9745	40113	A	9805	1	3647	MRVRHVGGAALELLTSVRESR ATSAFQVSPYEDEPCRPCNCDP VGSLSVVCIKDDLHSDLHNGKQ PGQCPCKEGYTGEKCDRCQLG YKDYPTCVSCGCNPVGSASDEP CTGPCVCKENVGKACDRCKP GFYNLKEKNPRGCSECFGVS DVCSSLSWPVGQVNSMSGWL VDLISPRKIPSQQDALGGRHQVS INNTAVMQRLAPKYWAAPEA YLGKNLTAFFGFLKYTVSYDIP VETVDSNLSMASHDVIIK
9746	40114	B	9806	141	236	
9747	40115	B	9807	66	266	
9748	40116	A	9808	1	330	
9749	40117	A	9809	1	792	
9750	40118	A	9810	129	311	
9751	40119	A	9811	3	538	
9752	40120	B	9812	96	536	
9753	40121	A	9813	1	2090	MSSNQKSPITKTSKSPGTANVLD VNNSTLMFVGGGQIKKSPA VKVTHFGKCLGEALNGKSI WNYIEREGKCRGCGSSQNE SFHFDGSGYSVVEKSLPATV TIIMLFNTFSPGGLLALYLGS YGT KDFLSIELFRGRVKVMT DLGSG PITLLDRRYNNGTWY KIAFQR NRKQGVLAVIDAYN TSNKETK QGETPGASSDLNR LDKDIYVG GLPRSRVVRGVT TKSFVGC IKNLEISRSTFDL LRNSYGV RKGCLLEPIRSVS FLKGGYIELPPKSLS PESE WLVT FATTNSSGIIAALG GDVEKRGDREEAHVFFSVML I GGNIEVHVNPGDGTGLRK ALL HAPTGTCSGDAQHISL VRNRR IITVQLDENNPVEMK LGALVES RTINVSNLVYGGI PEGEGLTSLT MRRSFHGCI KNLIFNLDHGFVD SVEQKR FCGVPSCARESARGRA QA QDTAQELQSEACDKRSPQP PGKGKHMVGVLQPSLFQKN LLL FYDEVLDLQPNKEKEFS V GANHNAFMVVHVGVCFC L F PSGEWLASPCFVHPQIT IHPDDR FQASVTDEGYLFLA KPTQPAPA CPLDPIRPLLL GHAQQPLLTQD HTDAAVTP SSAVTARAANYCA GGRNER KKTGREKRHLTG GPCVAL RTFTVLHISHHQVDGIRA GYVQRDGLQPTNRQIVM

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9754	40122	A	9814	1	8705	MRGGVLLVLLLCVAAQCRQRG LFPAILNLASNAHISTNATCGEK GPEMFCKLVHVPGRPVRNPQ CRICDGN SANPRERHPISHAIDG TNNWWQSPSIQNGREYHWVTI TLDLRQVFQVAYVIIKAANAPR PGNWILERSLDGTTFSWPQVYA VSDSECLSRYNITPRRGPTTYRA DDEVICTSYYSRLVPLEHGEIHT SLINGRPSADDLSPKLLFTSAR YIRLRFERIRTLNADLMTLSHRE PKELDPMLPR
9755	40123	A	9815	1	564	MGDLEDKLVFFIGELPRHLDQN SEQLKQVQRELKELHETCQQ HQLCQASTSGEPKERDKEEGK DSKPRSLRFTWSMKTTSSMDPN DMMREIRKVLDAANCDYEQKE RFLFCVHGDARQDS/LPCQWG DGKSCQVGPRLSLNGVVRFKRI SVGTSYCPKLNIA\SKIA\NELKP VKKSQIQVQGGRIHI
9756	40124	A	9816	2	451	ANAHGFIMELQDGYSTETGEK GAQLSGGQKQRVAMARALVR NPPVLILDEATSALDAESEYLIQ QAIHGNLQKHTVLIHARLSTV EHAHLIVLDKGRVVQQGTHQ QLACPRAGFYGKLVRQRMGLGL QPAADFTAGHNEPVANGSHKA
9757	40125	A	9817	1	498	MVKY/YLGQGVLRSSW/DQVV PA/FWQRYRNPVQRYLTEDIVH RENQMTTFTWNINHARPMVV EERCYVCVNSDNGWTEIRREA WVSSSLCGVSRAVWEFGLAQF KSNVTKLKGFEYILAKLQGEA ASKTLIKTAREAKEKAKETALA ATEKAKDLASKAATKKQQQ
9758	40126	A	9818	3	231	
9759	40127	B	9820	94	375	
9760	40128	A	9821	45	439	

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9761	40129	A	9822	304	1557	DRQNVMEQFNPLRLNLNLGK NYEKAVNAMILAGKAYYDGV AKIGEIATGSPVSTVELGHVLEI SSTHKLQRESLMENFKKFKH EIIHELEKKIELDVKYMNATLK RYQTEHKNKLESEKSAELK KIRRKSGSRNALKYEHKEIEY VETVTSRQSEIQQSIADGCKEA LLERERGASCFPLNKHCGFA/ NTHIHYYHLQSAELLNSKLP WQETCVDIAIKVPKEIMNMIEI KTPASTPVSGTPQASPMIERSNV VRKDYDTLSKCSKMPAPPASGR AYTSPIDMFNNPATAAPNSQR VNNSTGTSEDPSLQSVSVATG LNMMKKQKVKTIFFHTAGSNK TLLSAQGDVITLLIPEEKDGL YGEHDVSKARGWFPSSYTKLL EENETEAVTVPTPSPVRSFSG
9762	40130	B	9823	1	1128	
9763	40131	A	9824	1	434	
9764	40132	A	9825	92	319	SIPYPPIPPVDRKEID*LEGMQT SGLFQQTSG*EEGVGSIMASGR PPHPEPLKADFICKREVRLAFSI ACIWMR
9765	40133	A	9826	1	851	
9766	40134	A	9827	227	305	LVFISIFNLVG*NISDCIILICLK
9767	40135	A	9828	66	808	YCWQSQGAKPRDLLGPDLIPLN HSPRVSHLLCHRRIRKAGGVFV ADEIQVGFGRVKGHEFAQLQ GKDFVPDIVTMGKSIGNHPVA CVAATQPVARAFEAATGVEYFN TFGGSPVSCAVGLAVLVLEK EQLQDHATSVGSFLMQLLGQQ KIKHPVGDVVRGVGLFIGVDLIK DEATRTPVELKRHHVYLVSRLE NYVL.LSTDGPGRNILKFKPPMC FSLDNARQVAKLDAILTDM EKVRSCEMR
9768	40136	A	9829	3	597	

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9769	40137	A	9830	1	3281	MGFHHVQGAGLKLLTSGTPQL LALVQHWVPGARLVEELPHEL VLVLPTYGAHDGSFATLFRELD TRLAELRLTGYGSDTSEIEIFL KVVEECAADTDMEDG/TLRAA PMHRHCWPRRNPTAQDAATGD SAGDGEPAAGSAPETDQSGPD AVGRVQGWALTRQQLQALL KRFLARRSRRLFAQIVLPALF VGLALVFLVPPFGHYPALRLS PTMYGAQVSFFSEDAPGDGR ARLLEALLQEAGLEPP
9770	40138	A	9831	1	684	RTRGPPQSRSGRRRIPLYLP TSCIKELVAGGVAVESWPGRD AAQLLLCSCLSPPPVMTETRE PAETGGYASLEEDDEDLSPGE HSSDSEYTLSEPDSEEEEEEEEE EEETDDPEYDPGYKVK*RLGG GRGGPSRRAPRAAQPPAQPCQ LCGRSPLGEAPPGTPTGTSCC MPGVRCRQSPHTGSLAEGVGW EEGAEIGVVTVMGDLVLPV CIVLEVDV
9771	40139	A	9832	1	670	MESDIGRKGKDPDPEAGPEHSSD SEYTLSEPDSEEEEEEEEEEEEE TDDPEYDPGYKVQRLGGRG GPSRRAPRAAQPPAQPCQLCGR SPLGEAPPGTTPCRLCCPATAPQ EAPAPEGRALGEEEEEPFRAGE GRPAGREKEEEEEEGTYHCTE CEDSFNGLGELATGTSCCMGPV RCRQSPHTGSLAEGVGWEEGA EEIGVVTVMGDLVLPVCVVL
9772	40140	A	9833	3	512	
9773	40141	A	9834	3	815	MLYSRGPQPMGHGVLVCGLL GTGCTAGAQLREAYTSSQID QAEERISEIEDKLNEIKREDKITE KRMKRNEQSLQEIWYVVKRPN LRLIGVPKSDVENGTKLENTLQ DIUQENFNLARQANVQIEIQR TPQRYSSRRATPRHIIVRFTKVE MREK/MLRAAREKGRVTHKGK PVRLTADLSAETVQARREWGP FNILKGKNFQPRISYPAKLSFISE GEIKYFTDKQMLKDFVTI/RPA LKELLKEALNMERNWYQPLQ KHAKL

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9774	40142	A	9835	1	561	MVNGRIPQAPSQFSHLARLHPA PSPNSDSPFLAELLMPVIGL TPSYPSRFSSESTFLQEAFFDLC QAEDPVYANGGLNYSYRGYGA LSSNLQPPASLQTGNHNSGPTD LSMKGGAAFTTSTTPTPTPSSTST SRPVPTAQLSPTEISAVRQLIAG YRESAAFLRLSADELENLILQQ NRPRRHL
9775	40143	A	9836	2	226	KGVQFQFSSYG*PVFPPTFIK*G VLSPLFVFLRFLKDQMVVDV*H YF*GLCSVPLVYISVLVLVPCCF FFTVAL
9776	40144	A	9837	2	350	YKVSCKPAQLCSQQVKYLWLK LSKGTRALSEERIQPILAYPHPK TLKQLRGILGITGFCRIWIPR*S SPTGQE/FSLYVTEETGIALGILT QVQGTSLQPMEYLNKEIDELDQ GRTH
9777	40145	C	9838	213	365	
9778	40146	A	9839	1	1923	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, /-possible nucleotide insertion)
9779	40147	A	9840	1	2091	MVLVVVAVVVVVLVVAIVVV VVVVAAVVVGAVVVVVVVV MVVVVVVVVEEDNQHKTGA INNNNTAKNPQQSPFHSPATST GAEATQMRRNQKTNPHNMTK QVSLTPPKITLAHQVWIQTKKK YLIYLLKKHSGVKNIPRNPTYEG CEGPFQGELOTTAQNKGGHK QTEDHSMMLDRKNQYCENGH TAQAVPNPYTLTSLQIPEDAWEF TVLDPKHAVFCIPVHPDSQFLF AFEDPSNPMSQLIWTLPQGFR NSPHLFGQALAQDLSQFSYLDL LVLRYMDDLALATHSETLCHQ ATQALLNFLATCGYKVSCKPA QLCSQQVKYLGKLSKGTRTSL EERIQPILGYPHPKTLKQLTAFL GITGFCQIWIPRYSKIARPLNTRI KETQKANTHLVRWTPAEVAF QALKKALTHAPVLSLPVGQNF LYVTEKITGIALGVLT/PGTSAQ LAELIALTRAPELGEGRVNIY ANSIGREREFLTSKGTLVKHQE AIKRLLLAVQPKPEVAVLHCW GHQKGKEREIEENRQADIEARR AARQDPPEMLTEGPLAFELA MATARAELSLAIHCCLP PPPQ TRCWLP SLRIRQGVCCIPDPAR AITLTAWPKIPFLGIRKAKNPQV REHEACHHLGSLPPFWKWPT TILGALGARTPGNTGSTYTFIGY TYTSPVIFILSWQYVVFHGLYY
9780	40148	A	9841	1	1284	

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9781	40149	A	9842	1	1522	MVAPGVS TRLGVS VFPFLVLVY DLQYEGAECGVNADVEKHLEL GKKLLAAGQLADALSQFHAAV DGDPDNYIAYYRRATVFLAMG KSKAALPDLTKVIQLKMDFTA ARLQGRGHL LKQGKLDEAEDD FKKVLKSNPSENEEKEAQSLI KSDQMRLRSQALNAGSGDY TAAIAFLDKILEVCVWDAELRE LRAECFIKEGEPKAI SDI.KAAS KLKNDNTEAFYKISTLYYQLGD HDCSFSEFRDVLNLDQDHKRIC FAHYKQVKLNKLIESAEELIR DGRYTDATSKYESVMKTEPSIA EYTVRSKERICHCFISKDEKPV EARNVCSEVLQMEPDNVNALK DRAEAYLIEEMYDEAIQDYETA QEHNENDQI REGLEKAQRLLA KQSQRDYYKILGVKRNAKK QEIIKAYRKLALQWHPDNFQNE EEKKAEKKFIDIAAAKEVLS PEMRKKFDDGEDPLDAESQQG GGGNPFHRSWNSWQGFNPFSS GGPFRFKFHN
9782	40150	A	9843	5	519	LTCQEEHKKHPDSSVNFVEFS KKCLERWKTTSAKEK/SKFEEK AKSDKARC DREIKNYIPPKCKK GRPPSAFFLCSEHRPKIKSGHP GLFVVETAKKLGEMWSGQSAK DKQPYEQKAVKLQERYEKGIA AYRAKKGSEAGKKGSKKNKPE DEEEEEKEDEEEGEDEE
9783	40151	A	9844	1	3140	YSIATVLA AEKLDPRRDEAKR LRPQRNFNITFTHGTVFRPLTLE STFFNSALLFTTIKQDLPLPKTI ITNAFHRFRNHHQTGFKLSAAN QRGPLAATLSGPGGEGQSAVA RLTGEKKNHPGAQYANRLSPR VGRFINAAGTTGFPPTGKRARSD SSLAKENNQKAYKETYGVSHT RHDMLQIPKQQQNEKYQVPQF DQSTIKNIESAKGLDVWDSWPL QNADGTVAEYNGYHVVFALA GSPKDADDTSIYMFY

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9784	40152	A	9845	2	604	FLELPAAAAAVLSASPGALER EARSRSRSPQTADTSPRPAPAC APSRARAMPSPDRPFKQRRSFAD ARCKEVQQIRIDQHPSKIPVIER YKGEKQLPVLDTKFLVPDHV NMSELVKIIRRLQLNPTQAFLL LVNQHSMVSVSTPIADIYEQEK DEDFGLYMVYASQETFGF*ASS PCLSAHLPLTHPRLCPPGPAHP
9785	40153	A	9846	3	303	RDQHPSKIPVIERYKGEKQLPV LDKTKFLVPDHVNMSELVKIIR RRLQLNPTQAFLLVNQHSMSV VSTPIADIYEQEKDEDFGLAYM VYGLPGKPFPGF
9786	40154	A	9847	254	2110	
9787	40155	A	9848	234	1904	
9788	40156	A	9849	5	189	
9789	40157	A	9850	1	1546	MASASSQPSLAVGFSSFDPGAP SCTASSASGILSPTASEVPYASG MPIKKTGHRGVDSSGETTYKKT TSTALKGAIQLGITYTVGSLSTK PERDVLMDQFYVVEIFFPSEGS NLTPAHHYNAFRFKTYAPVAF RYFRELFGIPDDYLCCLCEPLI ELCSSGASGSLFYVSSDELIK TLQHKEAEFLQKLLPGYYLNLS QNPRTLCLKFFGLYCVQTGGKN IRIVVMNNLLPRSVKMHKIDYD KGSTYKRRASQKEREKPLPTFK DLDFLQDIPDGLFLDADTYNAL CKTLQRDCLVLQSFKIMDYSL WLSIHNIIDHAQREPLSSDTLQV SIDTQRLAPQKALYSTAMEFIQ GEARLGDTEADHMGGIPAQ NSKGERLLLYIGIIDLQSYTFLK KLEHSWKA VVHDGDAVSVHR PGFYAERFQHFMCNAVFKKIPL KPSPSKKFRSGLSFLHTGSSGN SCITYQPLVSEEHKSQVIKVVQE PGVHLGRSDVLPQTSEIPPLEEIT

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9790	40158	A	9851	233	2051	AGPGAGSTCLREARRGRGGGP QNAGSVKRRWEDSIPRRGR7GL KESQAAEGEGAAMASASSGP SSSVGFSSFDPAVPSTLSSASGI KRPMASEVPYASGMPIKKIGHR SVDSSETTYKKTTSSALKGAI QLGITHTVGSLSTKPERDVLMO DFYVVESIFFPSEGSNLTPAHHY NDRFRKYAPVAFRYFRELFGI RPDDYLYSLCSEPLIELCSSGAS GSLFYVSSDDEFIITVQHKKEE FLQKLLPGYYMNLNQNPRTLLP KFYGLYCVQAGGKNIRIVVMN NLLPRSVKMHKIDLGKSTYK RRASQKEREKPLPTFKDLDLQ DIPDGLFLDADMYNALCKTLQ RDCLVLQSFKIMDYSLMSIHNI DHAOREPLSSETQYSVDTRRA PQKALYSTAMESIQGEARRGG TMTDDHMGGIPARNKGERL LLYIGIIDILQSYRFVKKLEHSW KALVHDGDTVSVHRPGFYAER QRFMCNTVFKKIPLKPSPKKF RSGSSFSRRAGSSGNSCITYQPS VSGEHKAQVTTKAEVEPGVHL GRPDVLPQTPLLEEISEGSPIDP SFSPLVGETLQMLTTSTLEKLE
9791	40159	A	9852	30	298	EPFIFLFIYLFYLFETESRPVIO AGVQWCNLSLQPLPTGFKQFS VCLSPLTSDYRHPPPCPANFCS FSRDGVSPCWPGWSQTPDLR
9792	40160	A	9853	3	938	
9793	40161	A	9854	208	870	LGMAGRLFTVNLQSPNPLSTLL AEVCVEQCTLMDSKMKPLWIM YSNEEAGSGRVSVSLKRDDD LWQDMLTMQTIRLMDVPDTIA NIQLNRRNMDGGNEFTLSA GYCVATYVLGIGDRHSDNIMIR ASGQLFHIDFCHFRQRPFILTY DFVHVIEQGKTNN/SEKFERFRG YCERAYTILRRHGLLFLHLFAL MQAAGLPFLSCSKDIRY/LKDSL VHPL

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9794	40162	A	9855	1	790	VEELSKKLADSDQASKVQQQK LKVGQLGEWWPI.DKGGKLF KLWGRGGLVYKWFLLIYKISY ATGIVGYMAVMFTLFGLLLF KIKPEDAMDFGISLLFYGLYYG VLERDFAEMCADYMASTIGFY SESGMPTKHLSDSVCVCGQOI FVDVSEE/EDH*EHRC/CFHEF CIRGWCIWGGKQTCPCYCKEKV DLKRMFSNPYPPLGSLGVGCG KKVLA SVTCIWWLLGPSLLPPT RTCQTMMNNKKIMKVMRIKR MMTDTMAS
9795	40163	A	9856	1	1005	FRGRAVKMAAVVEVEVVGGA AGERELDEVMSDLSPPEQWR VEHARMHAKHRGHEAMHAEM VLILIALTVVAQLLL VQWKQRH PRSYNMVTLFQMWWVPLVFTV KLHWWRFLLVIWILFSAVTAFTV FRATRKPLVQTTPRLVYKWFLL IYKISYATGIVGYMAVMFTLFG LNLFLKIKPEDAMDFGISLLFYG LYYGVLERDFAEMCADYMAST IGFYSESGMPTKHLSDSVCVC GQQIFVDVSEEGDHETTYRLSC NHVSHEFCIRGWCIWGGKQTCPC YCKEKVDLKRMFSPNWPWRPHV MYGQLLDWLRYLVAWQPVIIG VVQGINIYLGLE
9796	40164	A	9857	28	267	LNIGKGDSSKKPRGKMSSYAFFV QTCREEHKKQHPDASVNFSEFS YKKDIAAY*AKGKPDAAKKGFI KAEKSKKKKEEEEED
9797	40165	A	9858	1	194	MGKGDPPKLRGKMSSYAFFVQ TCQEEHKKQPPDASVNFSEF/S KKCSERWKTMSAEKSEDMA KL
9798	40166	A	9859	241	958	HQIFILFFRKITKHGQRRSLRSPR GKMSSYAFFVQTCREEHKKRH PDASVNFSEFSKKC/SRQGWKT MS/SKEKGKF*RYGQKRDKAR YEREMKTYYP/SGGDKRSF KDPNAPQGGPPGFSFLF/CSEY RPKIKREDHPGLSIGDVAKKLG EMWELTLQ/SDKQPYEKKAA KLKEKYEKDIAAYRAKGPDA AKKGVVKAESKKKKKEEEEDE EDEDEEEEEDEDEDEDEEDD

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9799	40167	A	9860	2536	2909	KSGVPGSRFSSSDKSDTGV TGL FSTYFLKSD FQLQLIDISASTAS KSLFSA VLFQ EYILS FGLSEIISIL SSAVCWREAPKLSMVGCLAAG GKLTGC*AAGCLATDGR TETL DAAPAAAALSAV
9800	40168	A	9861	5	1752	KCTICLRNS/AVCCGCGQLSG YLN GEGADGAERGGGSGV E C LRAPVCGQAASSI.AASQLAAG GQAANHAQLRCLSPADCALML FIQVEVL TNSIAMVSVHLEKQP LKLVLGELGFRSPAGEEQATPV VGEGGLGCIEDSAAVAEGGIAI GGIVGINTALQEV LKPHTIKMQ RNNAQLSRRKEPK EGLCGERG QDRMSRAKGSSSKGKELPPGCR RVTM KPLL VRETQEGQA AERG AEEQLQTLGPFAVYRDSPSKNF YKRDKMLKGLEEAKVNFVWR TNEG FLEEDAGQEFGIQKAVTP ALCPSRKA EVPLSCLTLKLS E D GKAKKAPYNTG PLGLLHLSMC SHSRKGFEQLWQLNSGKLLQG PRDSVEGSARRAETA VHCPAVL HFAPALLLAALRCQRDLESAAA PSHTRSCQHPRLLSGAVQTAGF SNPPKVVIQIKWNFLVM L LNF GSTKLIARLKQMMNYKEMASQ RLTQSM LPHRSRLIGAGPCNRC VHPEPVIVTLFGQKV FARIKK N QTCLCSQIWCAHYQQGWICA WLAGFGKIYIFSTIGVIDTLSSG HIHLQPNC TARD SASWESPA
9801	40169	A	9862	1	668	MWRLVIQDAKDENGVLVGNR VLAHSSLAVLSCLALNNRRISG WTP/CGPSGSPPGFMGRRGTST/ RLPTG**CPEGQPPRCPCG*ASG CASSPAECRMPATHLPNGSGRV FPFPGPVNYSPLRLQAPEQVTG S/SPWPFS/RPVLGLPLEGS/PPP F/RLPPRPRPAGVAAGSSWGHS AASVRRSPGRRPEGESIHP RPPA SRLPWL RATREEEAGAPKLGED SYNPF

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9802	40170	A	9863	2	624	FMGRRGTSTPFLADNAPRGSP PGAHVVGWDPDLRRAPVTGF SCSGSCSQRGAAADWESFPRSPP CRASGCASSPAECRMPATHLPG NSGRVFPFPPGVNYSPLRLQAP EQVTGS/SPWPFs/RPVLGPLPLE GS/PPPF/RLPPRPPAGVAAGSS WGHSAASVRRSPGRRPEGESIH PRPPASRLPWLRAATREEEAGAP KLGEDSYPNF
9803	40171	A	9864	51	225	
9804	40172	A	9865	1	276	AFAAIPNTNLTLLLEQKALDEPAE TESVSKDNTL*PPVETPTTLPR AGRETKYANLSSPTSTVSESQ/P D*AWSNSPSTCKIQNITEKRGGSL
9805	40173	A	9866	3	441	QTNFKGCCKVTSKLNMSLLW TPTGR*GCDRKVEQGPGLDGT AAVRPKSLAISSLSVS/ACSASK TQGTDLKTSSHPPEMLHGMAPQ QKHGQQYKTKSSYKAFASIPYK HIAFGTEDS/STLPPRAAGRETK YANLSSPTSTVSESQAD
9806	40174	A	9867	123	417	SLDLDLFTVSGLLSLDSSGILTR NLEYSAN*VWVGSLTVGTNV KIRGLASEPPAETVSFSSKFLFN KLLFSRFSSSILKENEKERKNER HRGNSNV
9807	40175	A	9868	153	1624	TTRRKSMNPTLSGKYLEDNSDL FSEQALDEPAKTESVSKDNTLE PPVELYFPAQLRQTEELCATID KVLQDSLMAPSLSPTKQASSS LAYMNVERTPSPTLKSNTMLSL LQTSTSSSVGLPPVPPSSLSLKL SKQDGDRLGPENPRNIHTYPST LASSALSSLPINQRATFSSEK CFHPSPALSSLINRSKRASSQLS GQELNPALPSLPVSSADFAFLP NLRSSS/APSCQSAHPGAPAQSL SSAPTCSGSLTPSRLGKSESTTP NHRSPVSTPSSLISLRTTEELISP CALMSMTGPKNKKSKTPTTLPR AAGRETKYSKNDYLTNLNAGS QQERDQAKLTCPSEVSGTILQE REFEANKLQGMQQSDLFKAAY VLIVDSEGEDEAASRKVEQGP GGIGTAAVRPKSLAISSLSVDV VRPKTQGTDLKTSSHPEMLHG MAPQKQKHGQASAYKGEESNEE DWTILKSSRMTNPRKLSDNKI
9808	40176	A	9869	1	762	

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9809	40177	A	9870	1	537	
9810	40178	A	9871	490	681	MGLVLLHVGKLGSSWLRNGSQ ETAGQIISPLSSWHDGTGAGAAL DFSPLGSLCPVR*GSRRAAPH
9811	40179	C	9872	258	527	
9812	40180	A	9873	1	2865	MLPAFEHQTPSSSAFGLNLQQL WVVRGSRAFGHRLLKAALSGSL LLKFSDDSWLPCSSACRGPVIG LHLVIVYVKSHQNA YRHKNIQI KQTLSCNTTKVRSFIEVSETR NPPAGTNSGHILGTCPGYRYAK GKETGKEIKGPQNPPGYRLCPL QAVGGGEFGPTQVHVPSLSDDL KQIRVDLKGFSDDPDRQYPLRP EAHEGLQDILRYLKVQGLVRK CSSPCNTRILGVQKPKGWRLV QDLRFINEAVIPL
9813	40181	A	9874	3	177	
9814	40182	A	9875	255	1299	AAVFPLWCWRTGRGKCHSLEWR PCTVCSWDPSPPKVSAGQALCG SETLPLTQTDPDIQVPA TLES GHP ANLLVSAAWKSRKSLFSSWTW GTVISLGRPTPHFSEITIPLPWS HGSSITFQVTFPRFHVTTMTIQ LNVSSPVALENATSLSVLKNQS LRFVYVTDNPPARLSWTWEG QALNLSQSSSAVLELPPVESC DGGEFVCQAQHPLGSQHVVISIL SVQSDSVISIEEGVLQTLGFTLIR GILMGTSCTFCGFTWICCTSPVI PKPGTQSCSFTRDSATLPDAG SPGPKRVWMCSESHQPLCAVP DEDEQELHYAVLHFHKVQPQE PKVTDTEYSEIKIHK
9815	40183	A	9876	27	385	ASTTTGSGTSTAARCTAWSPG PLVTAVEKFEAEAAALGQRIST LQKGSFPLQVRMLNDQLMLL ERTFLNPRAFPERYYSYHVLWA /PSHGLRSHIPGLSNACSRARDT ASGSEA WAEG
9816	40184	A	9877	160	480	
9817	40185	A	9878	19	433	GLDHGWAGDRWRTRPVVGAG EGRAPRLNSPGQIRSPGPGDLS IYDNWIRYFNRSPVYGLVP.GF SSHQAVARTAGSVILRLSDSFFL PLKVSDDYSETLRSFLQAAQDDL GALLEQHSISLGPLVTAVEKFE AKAAAL

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9818	40186	A	9879	1	996	MALSKERSTVTRTQWARKTML QGETIQISESVSTYLRPYSVSGT VLGTNMSKTSARIPTYHTAFD TFDYVDKFLDPGFSSHQAVART AGSVILRLSDSFFLPLKVSDYSE TLRSFLQAAQQDLGALLEQHSI SLGPLVTAVEKFEEAAALGQR ISTLQKGSPPDHVLA/PSHGLRS HIPGILSNACSRARDTASGSEA WAEVQRQLSIVVTALEGSVEAL HEVLQLPAALRACPPLRKALAV DAAFREGNAARLFRLLQTLPLYL PSCAVQCHVGARREALARFA RAFSTPGQTLPLGFMVNLLA WMDSGKHGTCARPTGCPWTER RELCS
9819	40187	A	9880	66	744	RAHEDRERSGVQIRTQSWNGG KREKDFLHQSGVLETLMLKGC WRKSKTSARIPTYHTAFDFTD YVDKFLDPGFSSHQAVARTAG SVILRLSDSFFLPLKVSDYSETL RSFLQAAQQDLGALLEQHSISL GMHSPDPEVRMLNDQLMLLER TFLNPRAFPEERYSHVLWA/PS HGLRSHIPGILSNACSRARDTAS GSEAWAEVQRQLSIVVTALEG AAATLRPVADL

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9820	40188	A	9881	2	2241	PRVRRMQWTKVLGLGLGAA LLGLGIILGHFAIPKANSIAPQ DLDEILETVMGQLDAHRREN LRELSREPHLASSPRDEDLVQL LLQRWKDPESGLDSAEASTYE VLLSFPSQEQPNVVIVGPTGGI IHSCRTEENVTEGQGGPDVVQ PYAAVAPSGTPQGLLVYANRG AEEDFKELQTQGIKLEGTIALTR YGGVGRGAKAVNAAKHGVAG VLVYTDPADINDGLSSPDTEFP NSWYLPSPGVERGSYYEYFGDP LTPYLPAVPSSFRVDLANVSGF PPIPTQPIGFQDARDLLCNLNGT LAPATWQGALGCHYRLGPGFR PDGDFPADSQNVSVYNRLEL RNSSNVLGIIRGAVEPDRYVLY GNHRDSWVHGAVDPSSGTAVL LELSRVLTLLKKGTWRPRRSI VFASWGAEFGLIGSTEFTEEFF NKLQERTVAYINVDISVFANAT LRVQGTTPVQSVFSATKEIRSP GPGDLSIYDNWIRYFNRRSPVY GLVPSLGLSAGSDYAPFVHFL GISSMDIAYTYDRSKTSARIYPT YHTAFDTFDYVDKFLDPGFSSH QAVARTAGSVILRLSDSFFLPLK VSDYSETLRSFLQAAQQDLGAL LEQHSISLGPLVTAVEKFEAEA AALQQRISTLQKGSPPDLQVRM LNDQLMLLERTFLNPRAPFEER YYSHVLWAPSHGLRSHIPGLS
9821	40189	A	9882	1	1962	
9822	40190	A	9883	1	166	MEYYAALKKDEMFMSVGTWM KLETIILSKV/CQGGQVKVHHMFS LTGALLVRGPWA
9823	40191	A	9884	1	378	
9824	40192	A	9885	1	681	
9825	40193	A	9886	1	3174	MEYYAAIKNDEFMSFVGTWM KLETIILSKLLQGQKTKHRMFSL IGSHIVKVPSSLQAHLQLSGKEV DVNSEVHVQEMAEARKDDVV TVTDAEKALDKIHLFMVKTLS KIGIQGTYLNVKAIYDKPTANII LNGEKLLKAFPLRNETRQGCPLS PLLNTVLKVLARAVRQEKEIK GIQIGKEEVILSLFADDMIVHLE NPVISAQNLKLIDNFSKVSQY KINVQKSQAFLYTNNRQTESQI MSELPFTIASER
9826	40194	B	9887	1	352	

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9827	40195	A	9888	3	430	FFFLPVAGLRRPRRLGPVPPR PRVPPQDRAATMKKFFQEFKA DIKFKSAGPGQKLKESVGEKAH KEKPNQAPRPPRQGPTNEGTD GSRCCQP/WLEQKQSRAWGPH IAGHHKPKGEKGTSSRSHRQRE PRGPRDQIRGI
9828	40196	A	9889	1	1062	MKKFFQEFKADIKFSAGPGQK LKESVGVWGRPNGLMSVKGN CECGNLWLLYPEVAALAAEAE GPEVGSVEDQRRQQGYFVRLG SLSARIRHLAYEHSVGLKRLQSK HRAQDTLAQLQETLELVDHMP CGVTPPTAPARPGKVHELWGEW RQRPP/REPPPEIQAELETLVLAR SLTHELQGTVEALEFSVWGLPA GAQEKVAEVRRSVDALQTAF DARCFRDVPAAALAEGRGRVA HAHACVDELLELVVQAVPLPW LVGPFAPILVERPEPLDLADLV DEVIGGPDPRWAHLDPAAQQR AWAEHRDGSNGDGDGRMGV AGDICEQEPETPSCPVKHNPDA RAGLLTHGPFVEAG
9829	40197	A	9890	11	285	
9830	40198	A	9891	2	138	FFFLGFHVFSIPLIPRDNFS*GV FSSLDLITAVFVTLAELRSVT